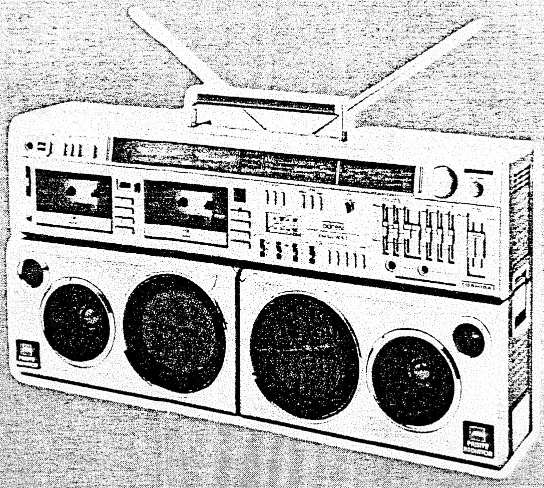
SERVICE DATA
FILE NO. 110-30

センターファイル
CENTER FILE

TOSHIBA
STEREO RADIO CASSETTE RECORDER
RT-S983 (WX-1)



SPECIFICATIONS

Cassette Tape Used:	Normal: C-30, C-60, C-90, C-120 Chrome: C-45, C-60, C-90 Metal: C-46, C-60, C-90
Tape Speed:	4.8 cm/sec.
Track System:	Four-track two-channel stereophonic
Recording System:	AC bias (85 kHz)
Erasing System:	AC erasing
Frequency Response:	Normal: 20 Hz to 15 kHz Metal: 20 Hz to 18 kHz
Receiving Frequency:	FM: 88 MHz to 108 MHz SW_2: 7.5 MHz to 22 MHz SW_1: 2.3 MHz to 7.5 MHz MW: 525 kHz to 1605 kHz
Intermediate Frequency:	FM: 10.7 MHz MW, SW: 455 kHz
Antenna:	FM, SW: telescopic antennas MW: ferrite-core antenna
Speakers:	120 mm (dia.) dynamic x 2 40 mm (dia.) dynamic x 2 Passive radiator (160 mm dia.) x 2
Jacks:	[MIC] jack x 2, Impedance 200 ohm to 2k ohm, ϕ3.5 mm [MIC (REC/PLAY)] jack x 1, impedance 200 ohm to 2k ohm, ϕ6.3 mm [AUX/PHONO] jack x 2, Impedance 50k ohm, pin-type [LINE OUT] jack x 2, Impedance 2.2k ohm, pin-type [SPEAKER] jack x 2, Impedance 6 ohm to 8 ohm, ϕ3.5 mm [PHONES] jack x 1, ϕ6.3 mm [REC MONITOR (TAPE (A))] jack x 1, ϕ6.3 mm
Power Supply:	AC 100 to 115V, 120 to 127V, 200 to 220V, 230 to 250V, 50/60 Hz DC 15V (SUM-1 "D" size x 10) External DC power [DC 12-15V] jack, (5.0 mm dia.) center pin "positive" pole.
Power Consumption:	32W
Dimensions:	740(W) x 379(H) x 180(D) mm
Weight:	14 kg (without batteries)

Specifications are subject to change without notice.

VF

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POWER SUPPLY

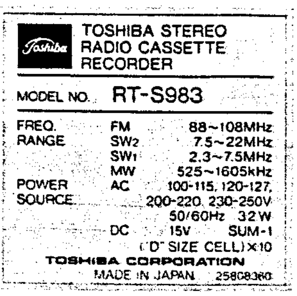
- **Batteries (optional)**
  Open the battery cover, insert 10 dry cells (SUM-1 "D" size) observing correct polarity (+, –).

- **To chack battery condition**
  When the set is switched on, the [BATTERY] indicator should light up. If it fails to light, all 10 batteries have run down, and must be replaced.

AC power
The voltage selector selects line voltage from 100-115, 120-127, 200-220 and 230-250V AC. The voltage selector located on the rear of the set is pre-set at 230-250V AC. Connect one end of the power cord to] AC POWER] socket and the other end to an AC outlet.

Precautions on power source changeover
Prior to changing over the voltage selector, confirm the local voltage of the current to which this cassette recorder is to be connected. Should it be inadvertently connected to the wrong voltage, trouble may result.

For voltage selector changeover
After unplugging the power cord from its outlet, use a flat-head screwdriver to set the voltage selector to the local line voltage, and connect one end of the power cord to [AC POWER] socket and other end an AC outlet.

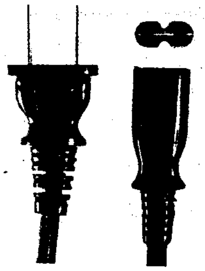


TOSHIBA STEREO
RADIO CASSETTE
RECORDER

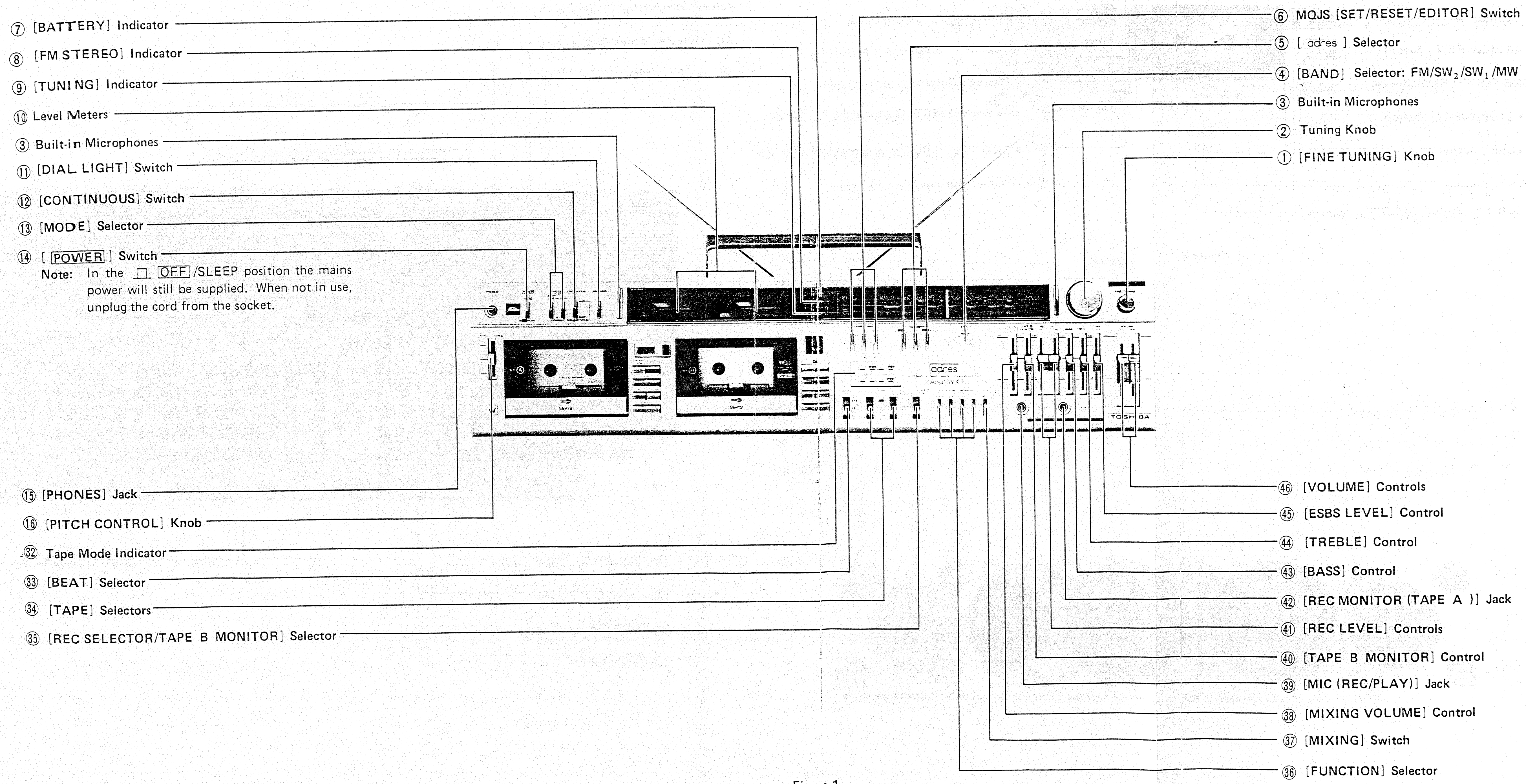
MODEL NO. RT-S983

FREQ. RANGE	FM	88~108MHz
	SW2	7.5~22MHz
	SW1	2.3~7.5MHz
	MW	525~1605kHz
POWER SOURCE	AC	100-115, 120-127, 200-220, 230-250V 50/60Hz 32W
	DC	15V SUM-1 ("D" SIZE CELL)×10

TOSHIBA CORPORATION
MADE IN JAPAN 25808380



1. OPERATING CONTROLS



⑦ [BATTERY] Indicator
⑧ [FM STEREO] Indicator
⑨ [TUNING] Indicator
⑩ Level Meters
③ Built-in Microphones
⑪ [DIAL LIGHT] Switch
⑫ [CONTINUOUS] Switch
⑬ [MODE] Selector
⑭ [POWER] Switch
Note: In the ⊓ OFF /SLEEP position the mains power will still be supplied. When not in use, unplug the cord from the socket.
⑮ [PHONES] Jack
⑯ [PITCH CONTROL] Knob
(32) Tape Mode Indicator
(33) [BEAT] Selector
(34) [TAPE] Selectors
(35) [REC SELECTOR/TAPE B MONITOR] Selector

⑥ MQJS [SET/RESET/EDITOR] Switch
⑤ [adres] Selector
④ [BAND] Selector: FM/SW$_2$/SW$_1$/MW
③ Built-in Microphones
② Tuning Knob
① [FINE TUNING] Knob
(46) [VOLUME] Controls
(45) [ESBS LEVEL] Control
(44) [TREBLE] Control
(43) [BASS] Control
(42) [REC MONITOR (TAPE A)] Jack
(41) [REC LEVEL] Controls
(40) [TAPE B MONITOR] Control
(39) [MIC (REC/PLAY)] Jack
(38) [MIXING VOLUME] Control
(37) [MIXING] Switch
(36) [FUNCTION] Selector

Figure 1

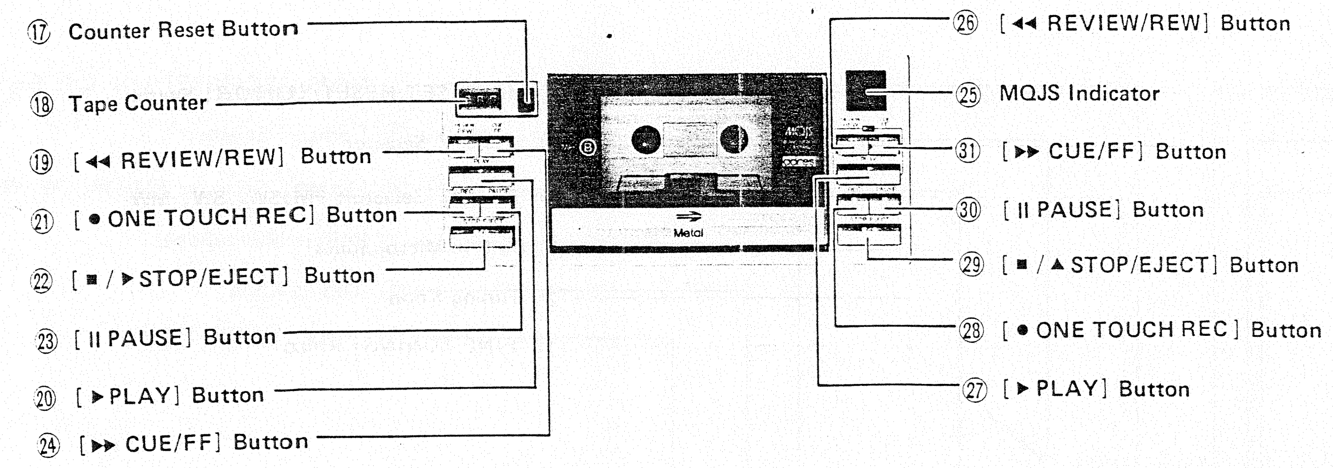

⑰ Counter Reset Button
⑱ Tape Counter
⑲ [◂◂ REVIEW/REW] Button
㉑ [● ONE TOUCH REC] Button
㉒ [■/▸STOP/EJECT] Button
㉓ [II PAUSE] Button
⑳ [▸PLAY] Button
㉔ [▸▸ CUE/FF] Button
㉖ [◂◂ REVIEW/REW] Button
㉕ MQJS Indicator
㉛ [▸▸ CUE/FF] Button
㉚ [II PAUSE] Button
㉙ [■/▲STOP/EJECT] Button
㉘ [● ONE TOUCH REC] Button
㉗ [▸PLAY] Button
Metal

Figure 2

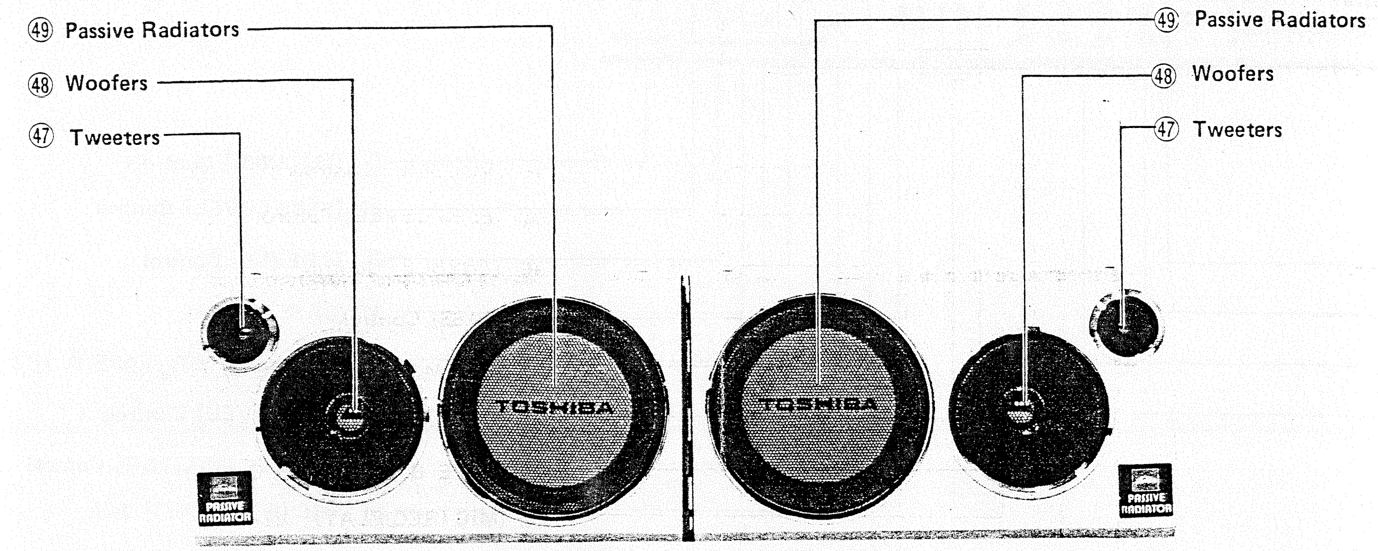

㊾ Passive Radiators
㊽ Woofers
㊼ Tweeters
㊾ Passive Radiators
㊽ Woofers
㊼ Tweeters
TOSHIBA
TOSHIBA
PASSIVE RADIATOR
PASSIVE RADIATOR

Figure 3

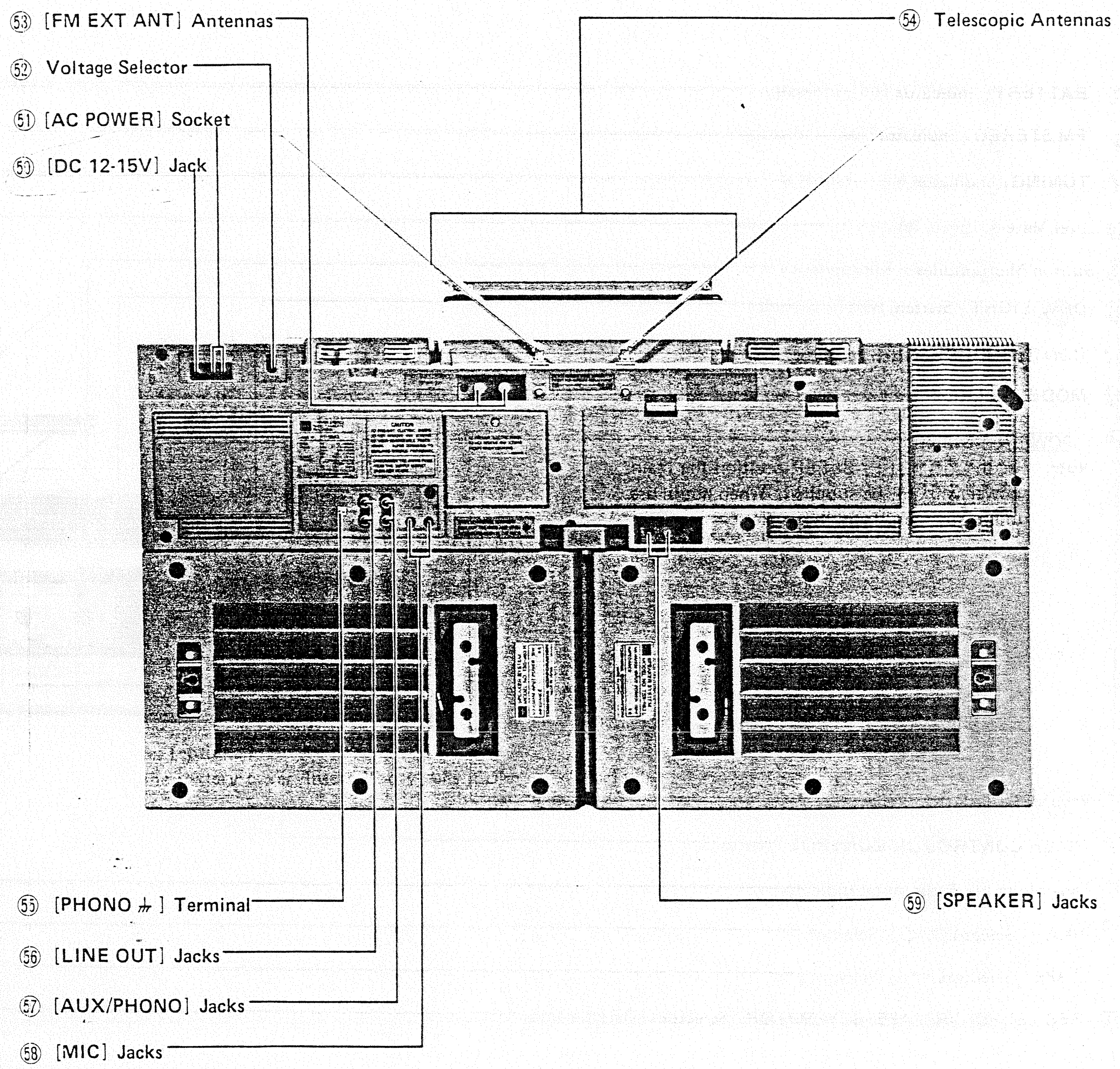

(53) [FM EXT ANT] Antennas
(52) Voltage Selector
(51) [AC POWER] Socket
㊿ [DC 12-15V] Jack
(54) Telescopic Antennas
(55) [PHONO ⏚] Terminal
(56) [LINE OUT] Jacks
(57) [AUX/PHONO] Jacks
(58) [MIC] Jacks
(59) [SPEAKER] Jacks

Figure 4

2. TECHNICAL POINTS

SPEAKER INSTALLATION

1. Place the speakers horizontally on a flat desk top or shelf. The right speaker mark should be in the bottom right hand corner and the left speaker mark in the bottom left hand corner. Then join the speakers together by interlocking as shown in the diagram.
2. Remove the protector paper from the speaker protector pads supplied with the unit, and attach these pads to the four bottom corners of the left and right speakers to protect the speakers from knocks and scratches etc.
3. Pull out the catch in the rear of the main unit and place the unit on top of the speakers (see diagram).
4. After making sure that the unit and speakers are properly aligned with each other, lock the connecting catch securely into position.
5. Interlock the latch on the side of the right hand speaker with the corresponding catch on the main unit.
6. Likewise interlock the latch on the side of the left hand speaker.
7. Connect the speaker cord plugs to the [SPEAKER] jacks in the main unit, making sure that left and right speakers are correctly connected to left and right input jacks.

Notes
1. Make sure that the [POWER] switch is in the " ⊓ OFF /SLEEP" position before connecting the speaker cord plugs.
2. Always assemble the system in the order described above. If the main unit is lifted without completing steps 3 and 4, the speakers may suffer damage.
3. The speaker marks (PASSIVE RADIATOR badges) can be turned by 90°.
   If the speakers are disconnected from the main unit and placed in upright positions, turn the badges accordingly for correct position use.

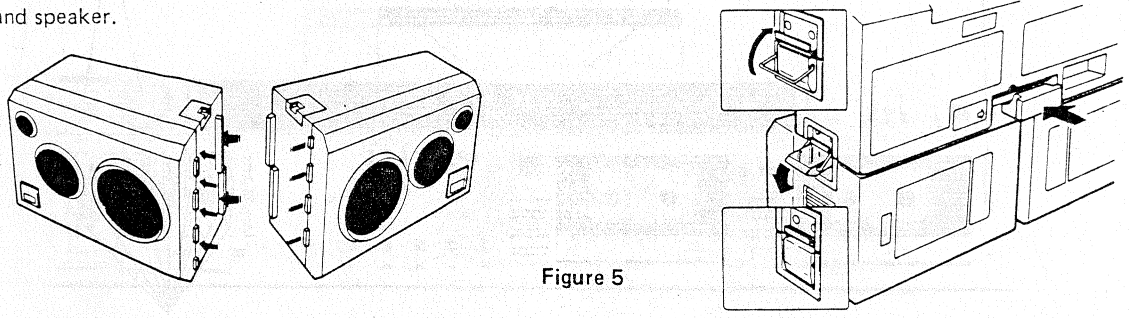


Figure 5

THE adres SYSTEM

Cassette tapes are narrower and travel more slowly than open reel tapes. During live recordings with wide dynamic range (the level difference between the loudest and softest sounds) and when recording from phonograph records, this handicap tends to result in distortion, making it very difficult to obtain very good recordings. Furthermore, cassette tapes also suffer from inherent noise sources (generally known as tape hiss), resulting in deterioration of the S/N ratio (signal to noise ratio). This noise is particularly irritating during soft passages of music. The Automatic Dynamic Range Expansion System adres developed by Toshiba records input signals after first "compressing" the sound (where the dynamic range is too wide for it to "fit in" on the tape), and then restores the output signals to the original dynamic range width during playback. As a result, this revolutionary system achieves a remarkable dynamic range of about 100 dB at 1 kHz, some 20 to 30 times wider than conventional cassette tape recording systems. And at 88 dB, the S/N ratio has also been greatly improved (by 10 to 20 times). This set features this adres system where a single push of a button ensures you of a wonderful listening experience free of distortion and noise.

THE ESBS SYSTEM

The [ESBS LEVEL] control enables the very low bass sounds centered around the 90 Hz frequency to be adjusted to match the type of musical instruments and the listener's listening room conditions.
ESBS: Expanded Supper Bass Sound

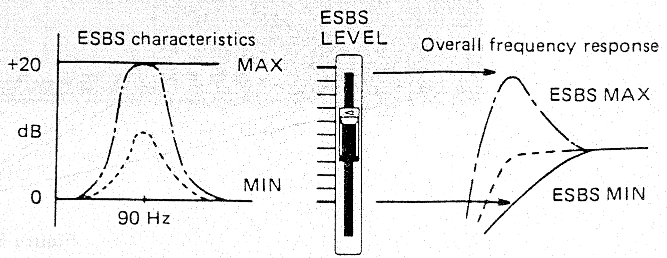


Figure 6

3. DISASSEMBLY INSTRUCTIONS

- **FRONT PANEL REMOVAL**
  1. Remove two screws Ⓐ (3φ x 6mm) on the top of the unit. (Figure 7)
  2. Remove twelve knobs Ⓑ. (Figure 8)
  3. Remove five screws Ⓒ (3φ x 35mm) marked arrows. (Figure 9)
  4. Open the cassette covers and pull the front panel toward you to remove it. (Figure 10)

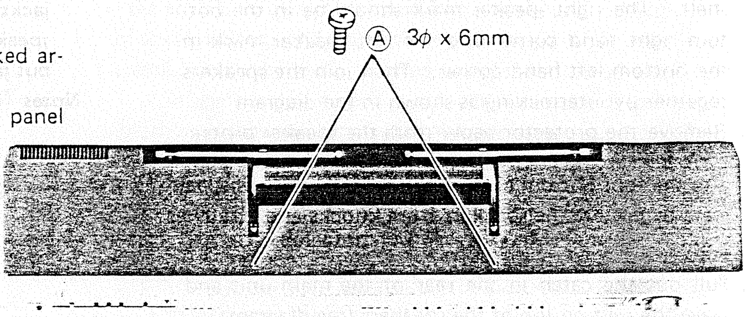


Figure 7

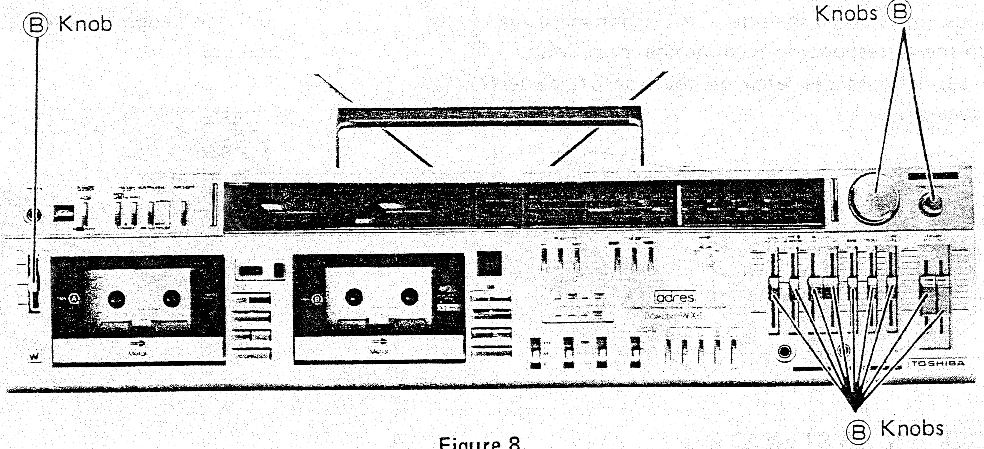


Figure 8

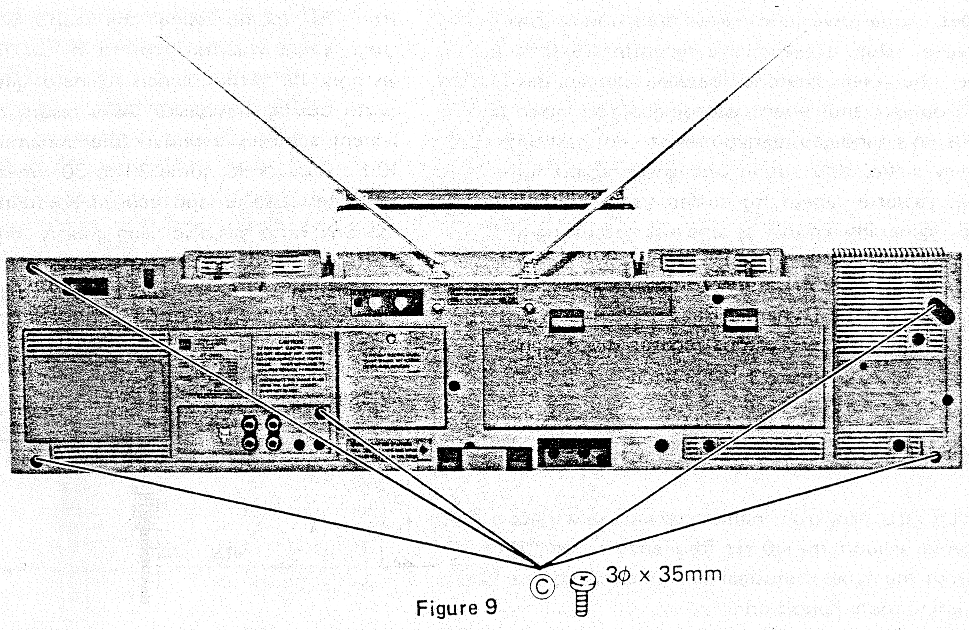


Figure 9

- CASSETTE MECHANISM ASSEMBLIES REMOVAL

1. Remove the screw Ⓓ (3φ x 6mm) retaining the frame for the LED P.C. Board. (For removal of the right mechanism assembly only) (Figure 11)
2. Remove eight screws Ⓔ, Ⓕ (3φ x 20mm) on the left and right mechanism assemblies. (Figure 12)

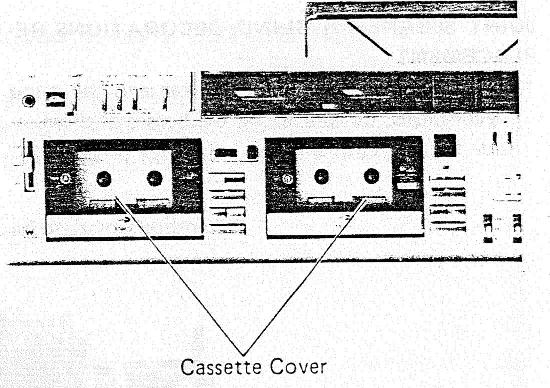

Cassette Cover

Figure 10

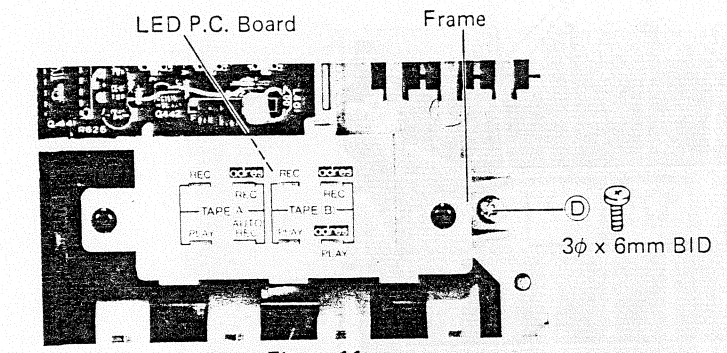

LED P.C. Board
Frame
Ⓓ
3φ x 6mm BID

Figure 11

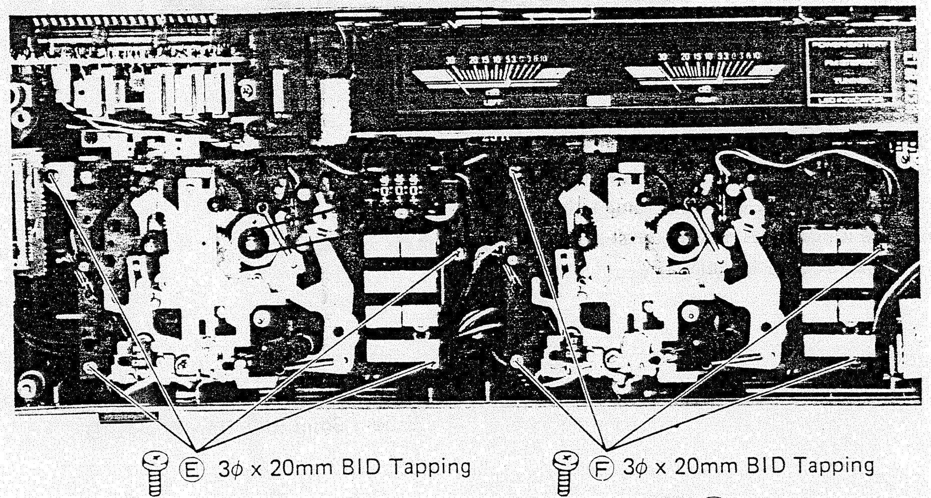

Ⓔ 3φ x 20mm BID Tapping
Ⓕ 3φ x 20mm BID Tapping

Figure 12

- VOLUME P.C. BOARD REMOVAL

1. Remove four screws Ⓖ (3φ x 10mm), Ⓗ (3φ x 6mm), Ⓘ (3φ x 12mm) on the frame for the volume P.C. Board to take it out. (Figure 13)

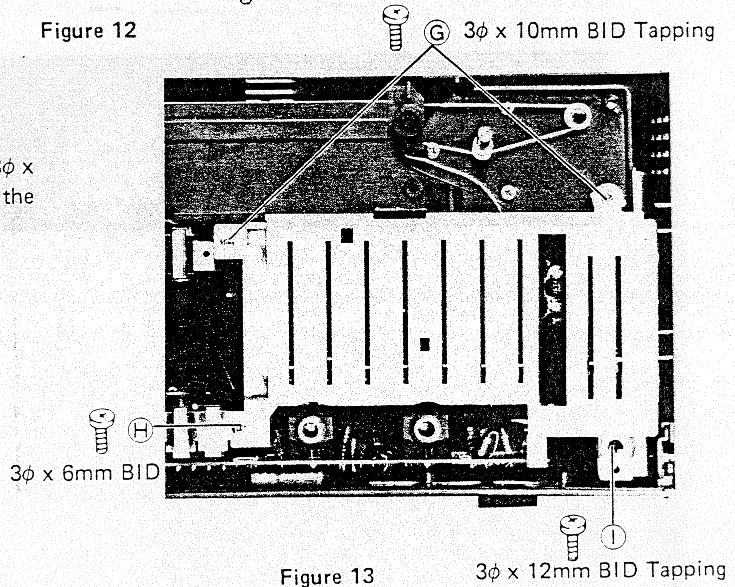

Ⓖ 3φ x 10mm BID Tapping
Ⓗ
3φ x 6mm BID
Ⓘ
3φ x 12mm BID Tapping

Figure 13

- TUNER P.C. BOARD & PREAMPLIFIER P.C. BOARD REMOVAL

1. Remove the volume P.C. Board. (Refer to VOLUME P.C. BOARD REMOVAL)
2. Remove the screw Ⓙ (3φ x 12mm) retaining the dial scale assembly. (Figure 14)
3. Remove four hooks Ⓚ holding the dial scale assembly. (Figure 15)
   Note: Take care of the dial pointer when removing the dial scale.
4. Remove four screws Ⓛ (3φ x 12mm) retaining the VU meter. (Figure 16)
5. Remove the screw Ⓜ (3φ x 12mm) retaining the tuner frame. (Figure 17)
6. Remove the screw Ⓝ (3φ x 10mm) retaining the pin jacks on the rear of the unit to take out the tuner P.C. Board and the preamplifier P.C. Board toward you. (Figure 18)

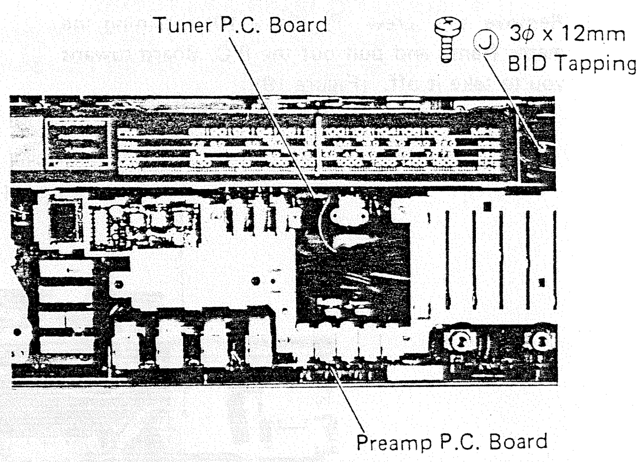

Tuner P.C. Board
Ⓙ 3φ x 12mm BID Tapping
Preamp P.C. Board

Figure 14

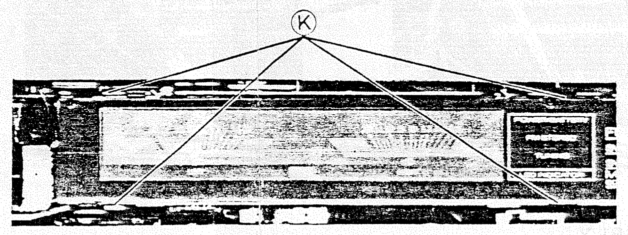


Figure 15

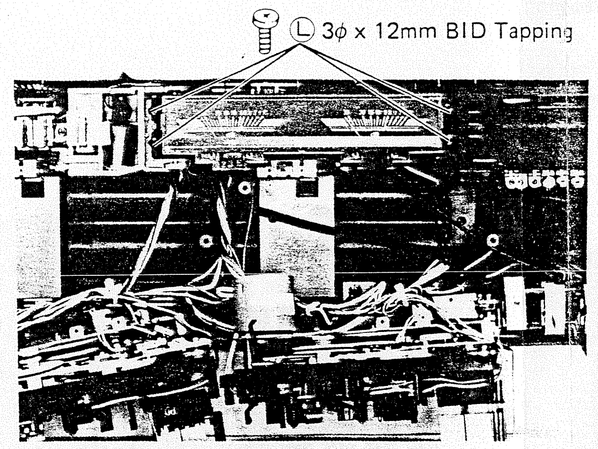

Ⓛ 3φ x 12mm BID Tapping

Figure 16

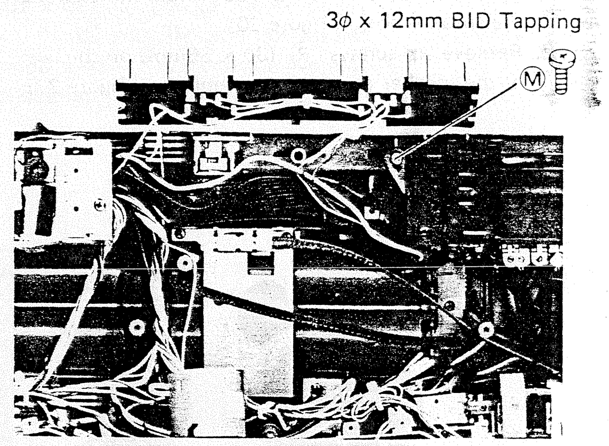

3φ x 12mm BID Tapping
Ⓜ

Figure 17

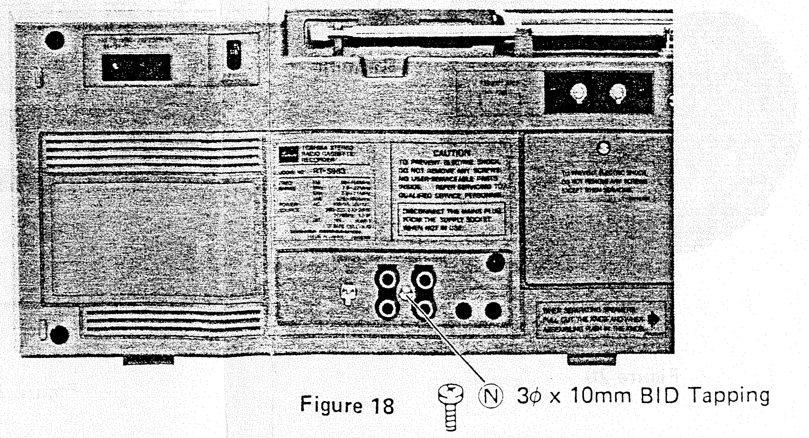

Ⓝ 3φ x 10mm BID Tapping

Figure 18

- AUDIO P.C. BOARD REMOVAL

1. Remove the screw Ⓟ (3φ x 10) retaining the meter frame and pull out the P.C. Board toward you to take it off. (Figure 19)

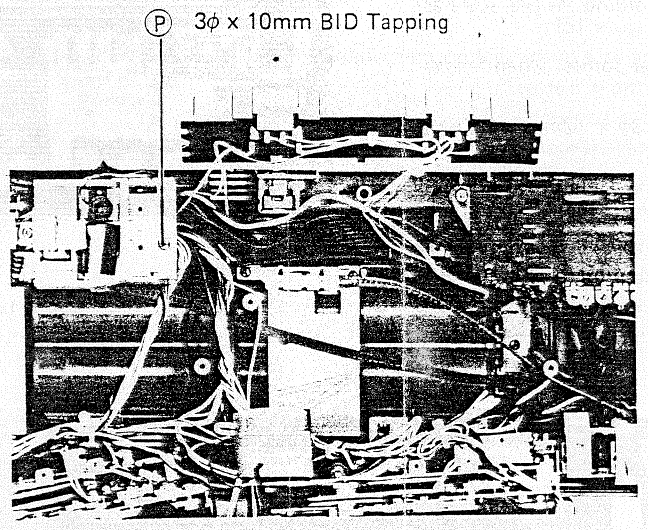

Ⓟ 3φ x 10mm BID Tapping

Figure 19

- SPEAKER BOX DISASSEMBLY

1. Remove four screws Ⓠ (3φ x 10mm) retaining the speaker box. (Figure 20)
2. Remove six screws Ⓡ (3φ x 35mm) on the rear of the speaker box to disassemble it. (Figure 21)

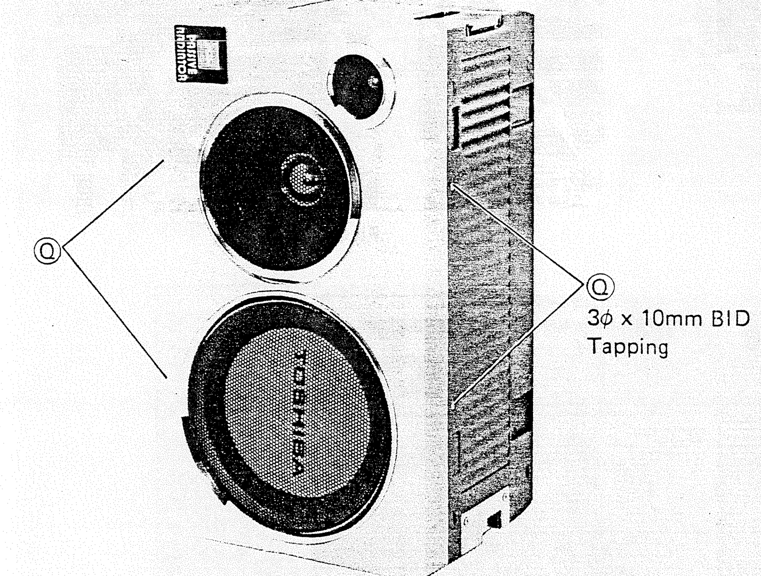

Ⓠ
Ⓠ
3φ x 10mm BID
Tapping
TOSHIBA

Figure 20

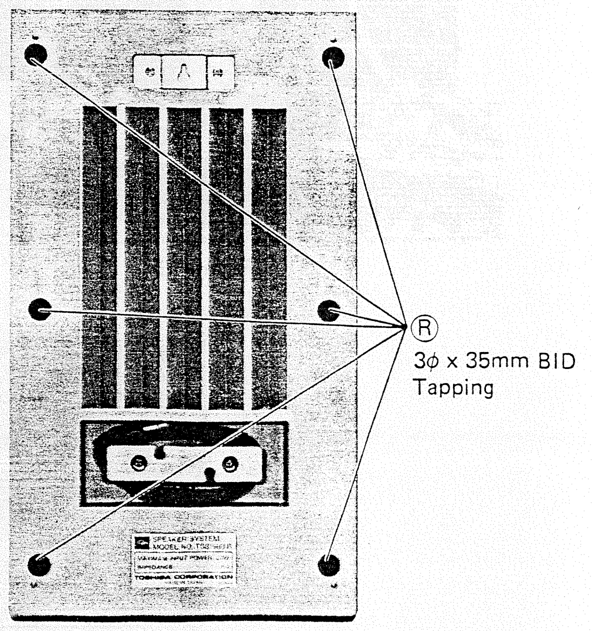

Ⓡ
3φ x 35mm BID
Tapping

Figure 21

- JOINT SPEAKER & BLIND DECORATIONS REPLACEMENT

1. When replacing the joint speaker and the blind decorations, be sure to fix the bosses of them inside the box with an adhesive agent. (Figure 22)

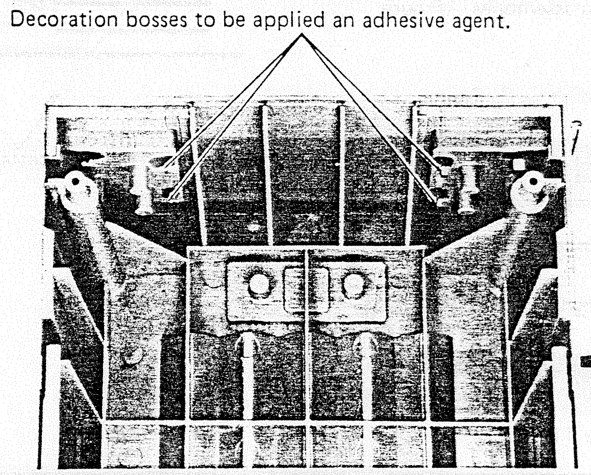

Decoration bosses to be applied an adhesive agent.

Figure 22

- CAUTIO FOR SCREW REPLACEMENT

1. When replacing the screws Ⓢ retaining the lock slider bracket, do not use ones longer than 3φ x 6mm. (The longer ones may cause short circuiting with the P.C. Board.) (Figure 23)

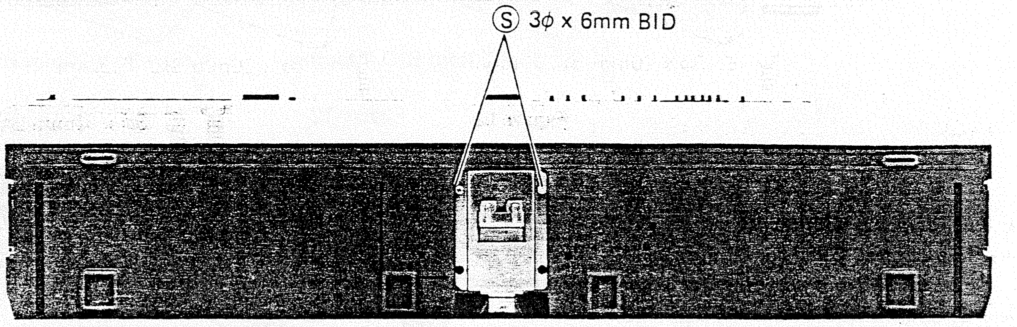
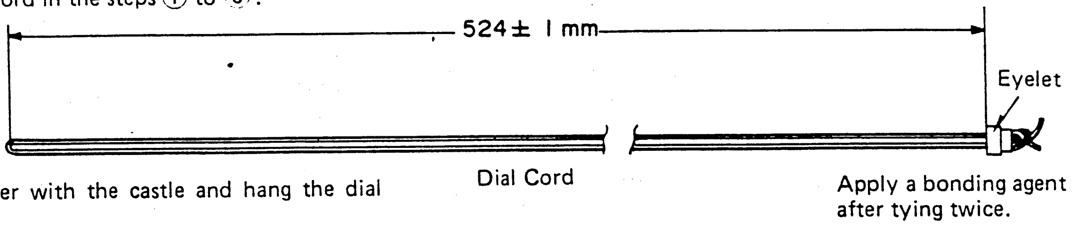


Figure 23

4. DIAL CORD RESTRINGING

Procedures

1. Thread the dial cord through the hole on the goove of the drum and hook the spring on the appointed hole.
2. Wind the dial cord in the steps ① to ⑧.


524± 1 mm
Eyelet
Dial Cord
Apply a bonding agent after tying twice.

3. Fix the pointer with the castle and hang the dial cord.
4. Place the dial cord on the groove of the drum.
5. Set the pointer to " o " on the dial scale.

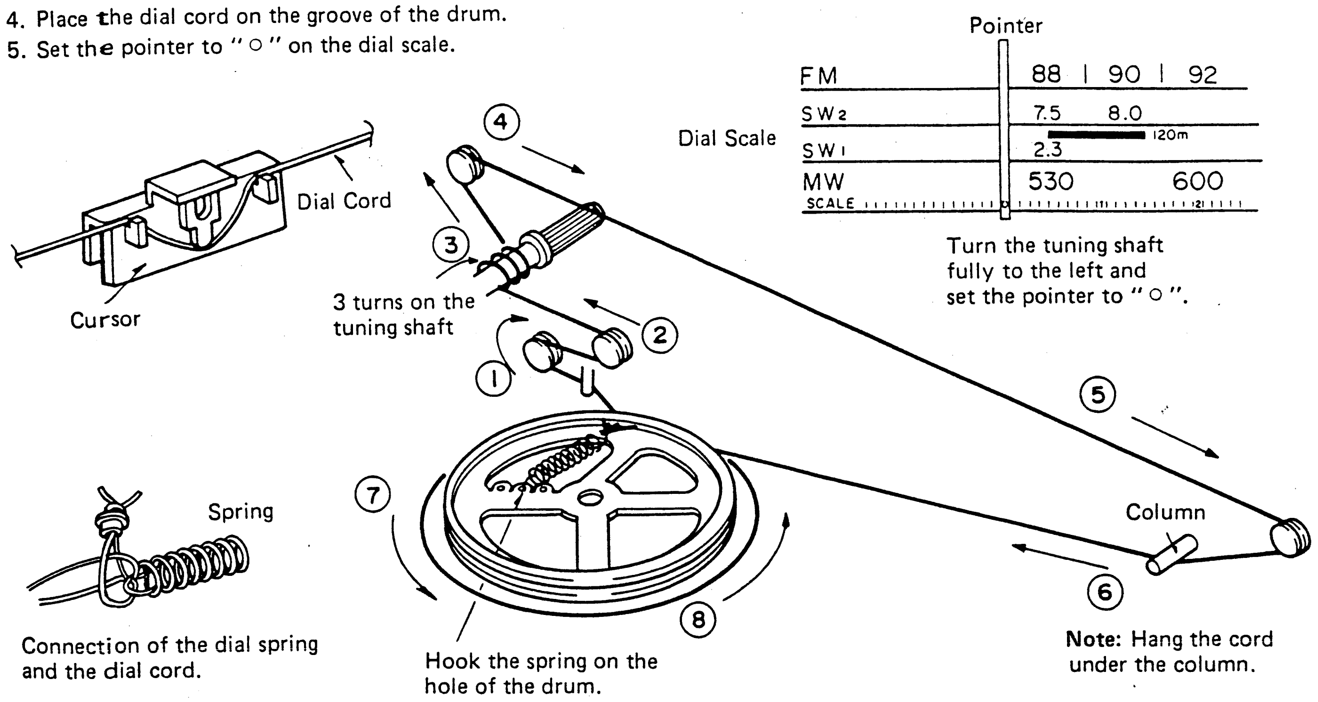

Pointer
FM
88 | 90 | 92
SW2
7.5 8.0
120m
SW1
2.3
MW
530 600
SCALE
Dial Scale
Turn the tuning shaft fully to the left and set the pointer to " o ".
Dial Cord
Cursor
④
③
3 turns on the tuning shaft
②
①
⑤
Spring
⑦
Column
⑥
⑧
Connection of the dial spring and the dial cord.
Hook the spring on the hole of the drum.
Note: Hang the cord under the column.

Figure 24

5. HANDLE REMOVAL

- **HANDLE HOLDER REPLACEMENT**
  To replace the handle holder, detach the handle axis in the direction of Ⓐ , turn it in Ⓑ and pull it out in Ⓒ to remove the handle holder.

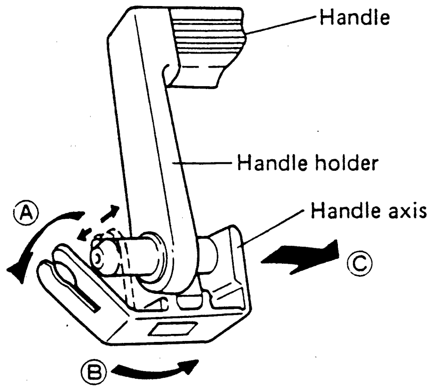

Handle
Handle holder
Handle axis
Ⓐ
Ⓑ
Ⓒ

Figure 25

6. BLOCK DIAGRAM

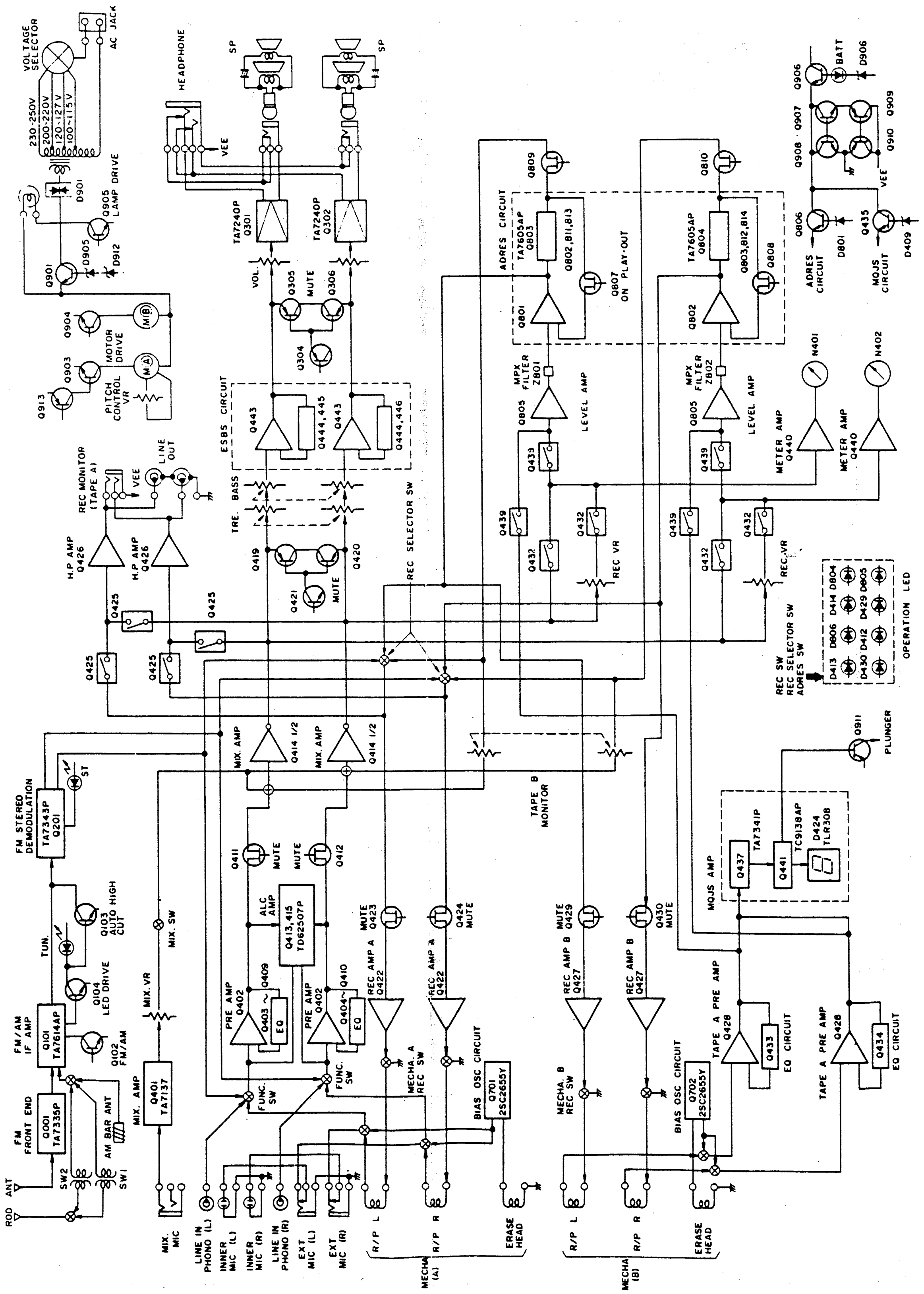

VOLTAGE SELECTOR
AC JACK
230-250V
200-220V
120-127V
100-115V
HEADPHONE
SP
SP
VEE
D901
D905 LAMP DRIVE
TA7240P Q301
TA7240P Q302
VOL
Q305 MUTE
Q306 MUTE
Q304
Q901
D912
Q904
Q903
MOTOR DRIVE
PITCH CONTROL VR
Q913
ESBS CIRCUIT
Q443
Q444,445
Q444,446
REC MONITOR (TAPE A)
LINE OUT
BASS
TRE.
H.P AMP Q426
Q419
Q420
Q421
MUTE
Q425
REC SELECTOR SW
ADRES CIRCUIT TA7605AP Q803
Q809
Q802,811,813
Q807 ON PLAY-OUT
Q801
MPX FILTER Z801
Q805
LEVEL AMP
Q439
Q432
REC VR
Q810
TA7605AP Q804
Q803,812,814
Q808
Q802
MPX FILTER Z802
METER AMP Q440
N401
N402
BATT
Q906
Q907
Q908
Q909
Q910
Q806
ADRES CIRCUIT
D801
Q435
MOJS CIRCUIT
D409
REC SW
ADRES SW
OPERATION LED
Q911
PLUNGER
FM STEREO DEMODULATION TA7343P Q201
ST
MIX. AMP Q414 1/2
TAPE B MONITOR
Q411 MUTE
Q412 MUTE
ALC AMP Q413,415 TD62507P
Q103 AUTO HIGH CUT
TUN.
MIX. SW
Q104 LED DRIVE
MIX. VR
FM/AM IF AMP Q101 TA7614AP
Q102 FM/AM
PRE AMP Q402
Q403~Q409 EQ
Q404~Q410
REC AMP A Q422
MUTE Q423
Q424 MUTE
MUTE B Q429
Q430 MUTE
REC AMP B Q427
TAPE A PRE AMP Q428
Q433 EQ CIRCUIT
Q434 EQ CIRCUIT
MOJS AMP Q437
TA7341P
TC9138AP Q441
D424 TLR308
FM FRONT END Q001 TA7335P
AM BAR ANT
MIX. AMP Q401 TA7137
SW2
SW1
ROD ANT
FUNC. SW
MECHA. A REC SW
BIAS OSC CIRCUIT Q701 2SC2655Y
BIAS OSC CIRCUIT Q702 2SC2655Y
MECHA. B REC SW
MIX. MIC
LINE IN PHONO (L)
INNER MIC (L)
INNER MIC (R)
LINE IN PHONO (R)
EXT MIC (L)
EXT MIC (R)
R/P L
R/P R
ERASE HEAD
MECHA (A)
MECHA (B)

Figure 26

7. ADJUSTMENTS INSTRUCTIONS

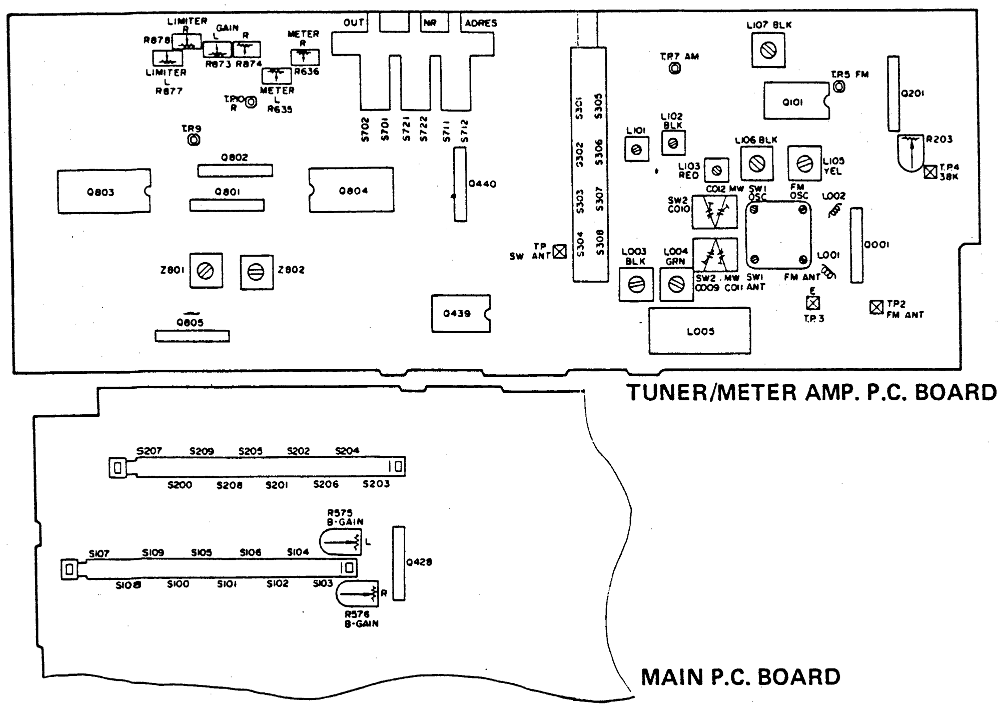

TUNER/METER AMP. P.C. BOARD
MAIN P.C. BOARD
LIMITER
GAIN
METER
OUT
NR
ADRES
L107 BLK
TP7 AM
TP5 FM
Q101
Q201
R203
Q802
Q801
Q803
Q804
Q440
Q439
Q805
Z801
Z802
L101
L102 BLK
L106 BLK
L103 RED
L105 YEL
L002
L003 BLK
L004 GRN
L001
Q001
L005
TP SW ANT
TP3
TP2 FM ANT
TP4
R575 B-GAIN
R576 B-GAIN
Q428

Figure 27

TEST EQUIPMENTS REQUIRED

1. AM Signal Generator
2. FM Signal Generator
3. AM Sweep Generator
4. FM Sweep Generator
5. AM Test Loop Antenna
6. Frequency Counter
7. Oscilloscope
8. Dummy Load Resistor
9. Dummy Antenna
10. VTVM
11. Adjusting Screwdriver

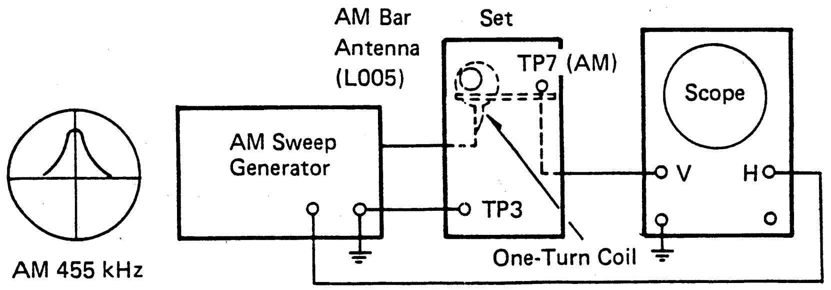

AM Bar Antenna (L005)
Set
TP7 (AM)
Scope
AM Sweep Generator
V
H
TP3
One-Turn Coil
AM 455 kHz

Figure 28

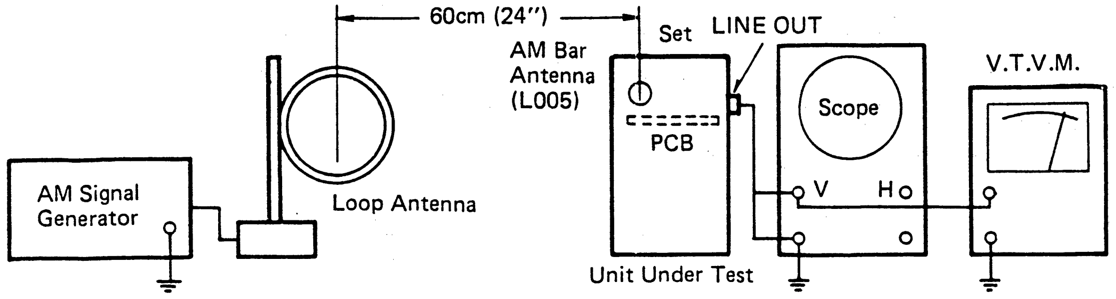

60cm (24")
Set
LINE OUT
AM Bar Antenna (L005)
PCB
Scope
V.T.V.M.
V
H
AM Signal Generator
Loop Antenna
Unit Under Test

Figure 29

MW ALIGNMENT CHART (See Figure 28, Figure 29) Standard test frequency 400Hz and modulation 30%

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	455 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	L105, L106	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L103 (MW)	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully clockwise (Highest Frequency)	OSC. Trim C012	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L005	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. C011	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

SW ALIGNMENT CHART (See Figure 30)

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
SW1	1	2.25 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L102 (SW1)	Adjust for maximum indication.
	2	7.7 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C008	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	3 MHz	Tune to Singal.	Ant. Coil L004 (SW1)	Adjust for maximum indication.
	5	7 MHz	Tune to Signal.	Ant. Trim. C007	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			
SW2	1	7.35 MHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil L101 (SW2)	Adjust for maximum indication.
	2	22.5 MHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C010	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	9 MHz	Tune to Signal.	Ant. Coil L003 (SW2)	Adjust for maximum indication.
	5	20 MHz	No Adjustment	Ant. Trim. C009	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

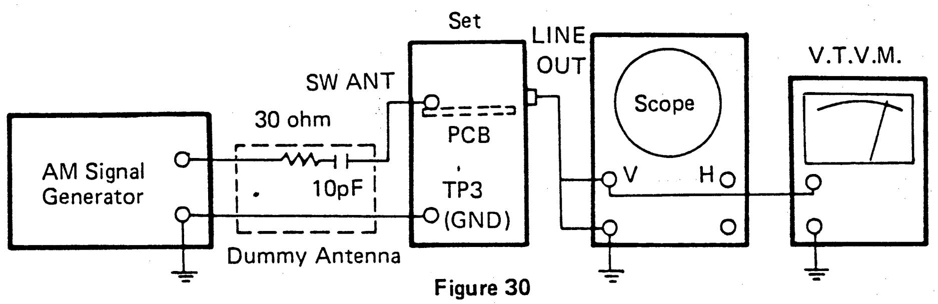

AM Signal Generator
SW ANT
30 ohm
10pF
Dummy Antenna
Set
PCB
TP3 (GND)
LINE OUT
Scope
V
H
V.T.V.M.

Figure 30

FM-IF ALIGNMENT CHART

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Remarks
	Connect sweep generator output to a three-turn loop antenna of 10cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	L104 L107	Turn the coil L107 fully counterclockwise to obtain a single peak. Adjust coil L104 for highest single peak is obtained. Figure 31. Finally turn the coil L107 to obtains S curve. See Figure 32.

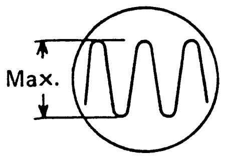


Figure 31

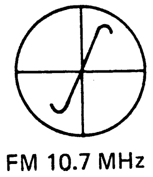


Figure 32

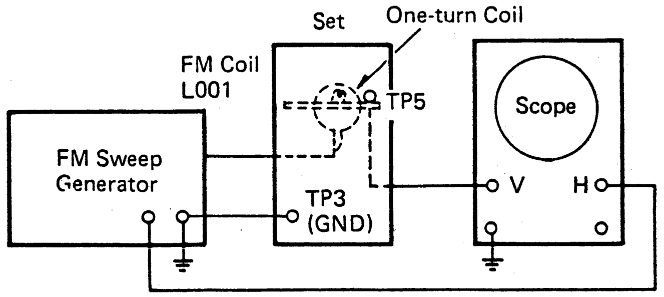

FM Sweep Generator
FM Coil L001
Set
One-turn Coil
TP5
TP3 (GND)
Scope
V
H

Figure 33

FM-RF ALIGHMENT CHART (See Figure 34)

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.2 MHz	Tuning Knob fully Counterclockwise (Lowest Frequency)	OSC. Coil L002	Adjust for maximum output indication.
2	109 MHz	Tuning Knob fully Clockwise (Highest Frequency)	OSC. Trim. C006	Adjust for maximum output indication.
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication.
5	106 MHz		Ant. Trim. C005	
6	Repeat steps 4 and 5 as required.			

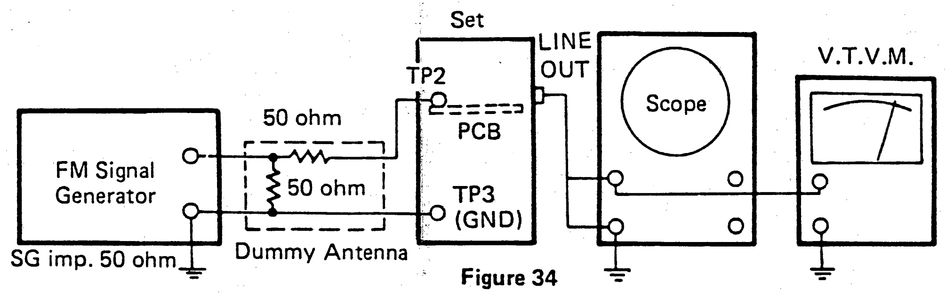

FM Signal Generator
SG imp. 50 ohm
50 ohm
50 ohm
Dummy Antenna
Set
TP2
PCB
TP3 (GND)
LINE OUT
Scope
V.T.V.M.

Figure 34

FM MPX (See Figure 35)

Step	Alignment	Connections INPUT	Connections OUTPUT	Tuning Dial Setting	Adjustment	Remarks
1	Free Run 38 kHz	FM Frequency 98 MHz 1 mV	Connect frequency counter or synchroscope to TP. See Figure 35.	None	R203	Obtain 38 kHz on the frequency counter.

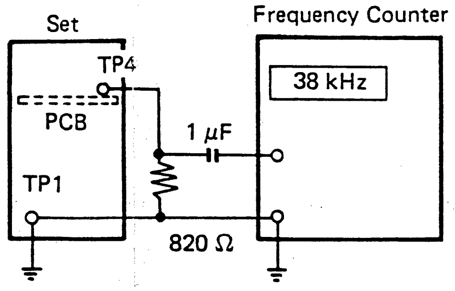
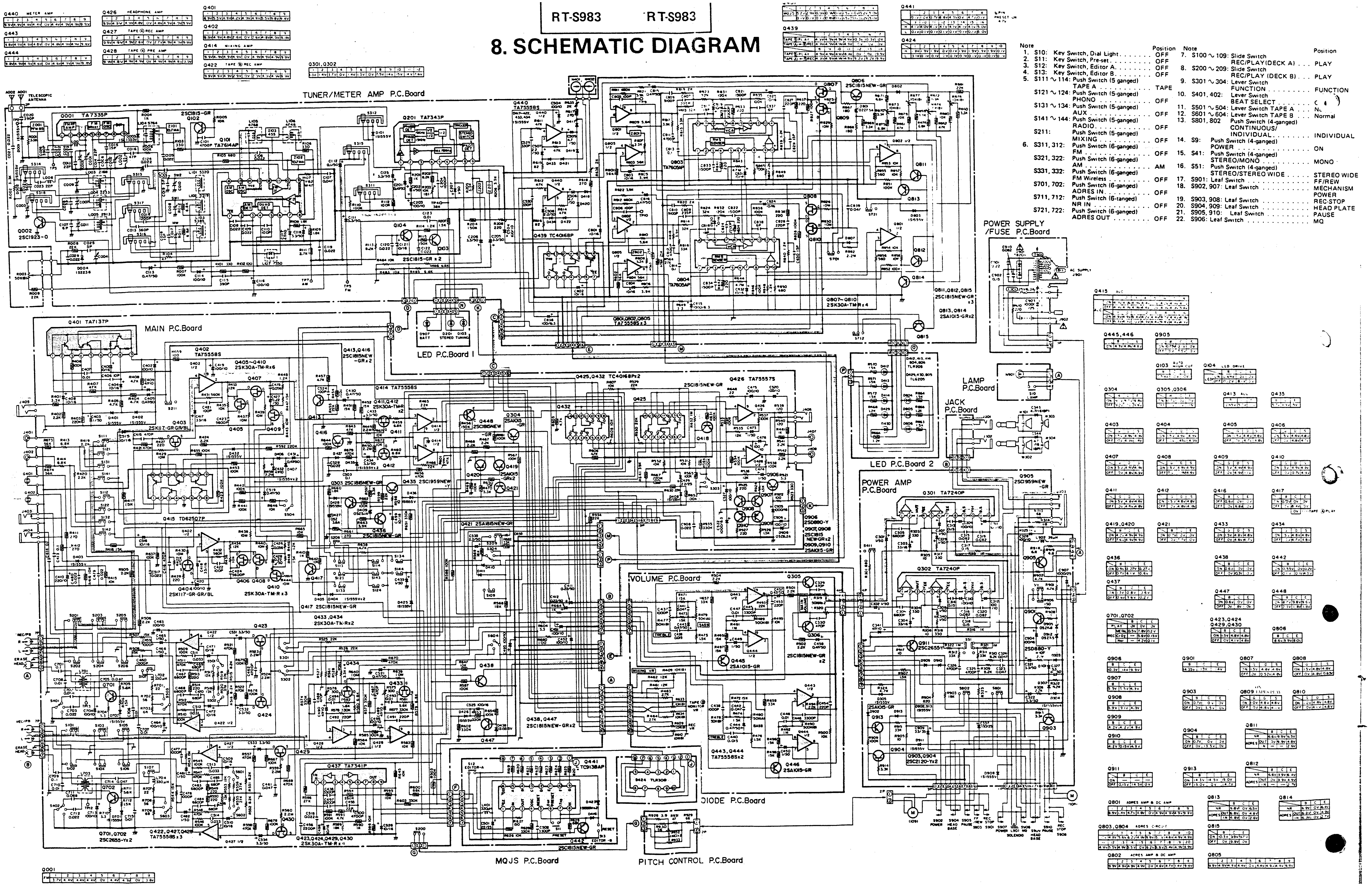

Set
TP4
PCB
TP1
1 μF
820 Ω
Frequency Counter
38 kHz

Figure 35

8. SCHEMATIC DIAGRAM


TUNER/METER AMP P.C.Board
MAIN P.C.Board
LED P.C.Board I
LED P.C.Board 2
POWER SUPPLY /FUSE P.C.Board
LAMP P.C.Board
JACK P.C.Board
POWER AMP P.C.Board
VOLUME P.C.Board
DIODE P.C.Board
MQJS P.C.Board
PITCH CONTROL P.C.Board
TELESCOPIC ANTENNA
AC SUPPLY J901

Note			Position
1.	S10:	Key Switch, Dial Light	OFF
2.	S11:	Key Switch, Pre-set	OFF
3.	S12:	Key Switch, Editor A	OFF
4.	S13:	Key Switch, Editor B	OFF
5.	S111 ∿ 114:	Push Switch (5 ganged) TAPE A	TAPE
	S121 ∿ 124:	Push Switch (5-ganged) PHONO	OFF
	S131 ∿ 134:	Push Switch (5-ganged) AUX	OFF
	S141 ∿ 144:	Push Switch (5-ganged) RADIO	OFF
	S211:	Push Switch (5-ganged) MIXING	OFF
6.	S311, 312:	Push Switch (6-ganged) FM	OFF
	S321, 322:	Push Switch (6-ganged) AM	AM
	S331, 332:	Push Switch (6-ganged) FM Wireless	OFF
	S701, 702:	Push Switch (6-ganged) ADRES IN	OFF
	S711, 712:	Push Switch (6-tanged) NR IN	OFF
	S721, 722:	Push Switch (6-ganged) ADRES OUT	OFF

Note			Position
7.	S100 ∿ 109:	Slide Switch REC/PLAY(DECK A)	PLAY
8.	S200 ∿ 209:	Slide Switch REC/PLAY (DECK B)	PLAY
9.	S301 ∿ 304:	Lever Switch FUNCTION	FUNCTION
10.	S401, 402:	Lever Switch BEAT SELECT	C
11.	S501 ∿ 504:	Lever Switch TAPE A	N
12.	S601 ∿ 604:	Lever Switch TAPE B	Normal
13.	S801, 802	Push Switch (4-ganged) CONTINUOUS/ INDIVIDUAL	INDIVIDUAL
14.	S9:	Push Switch (4-ganged) POWER	ON
15.	S41:	Push Switch (4-ganged) STEREO/MONO	MONO
16.	S51:	Push Switch (4-ganged) STEREO/STEREO WIDE	STEREO WIDE
17.	S901:	Leaf Switch	FF/REW
18.	S902, 907:	Leaf Switch	MECHANISM POWER
19.	S903, 908:	Leaf Switch	REC-STOP
20.	S904, 909:	Leaf Switch	HEAD PLATE
21.	S905, 910:	Leaf Switch	PAUSE
22.	S906:	Leaf Switch	MQ

Figure 36

CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

9. ELECTRICAL PARTS LOCATIONS (MAIN)

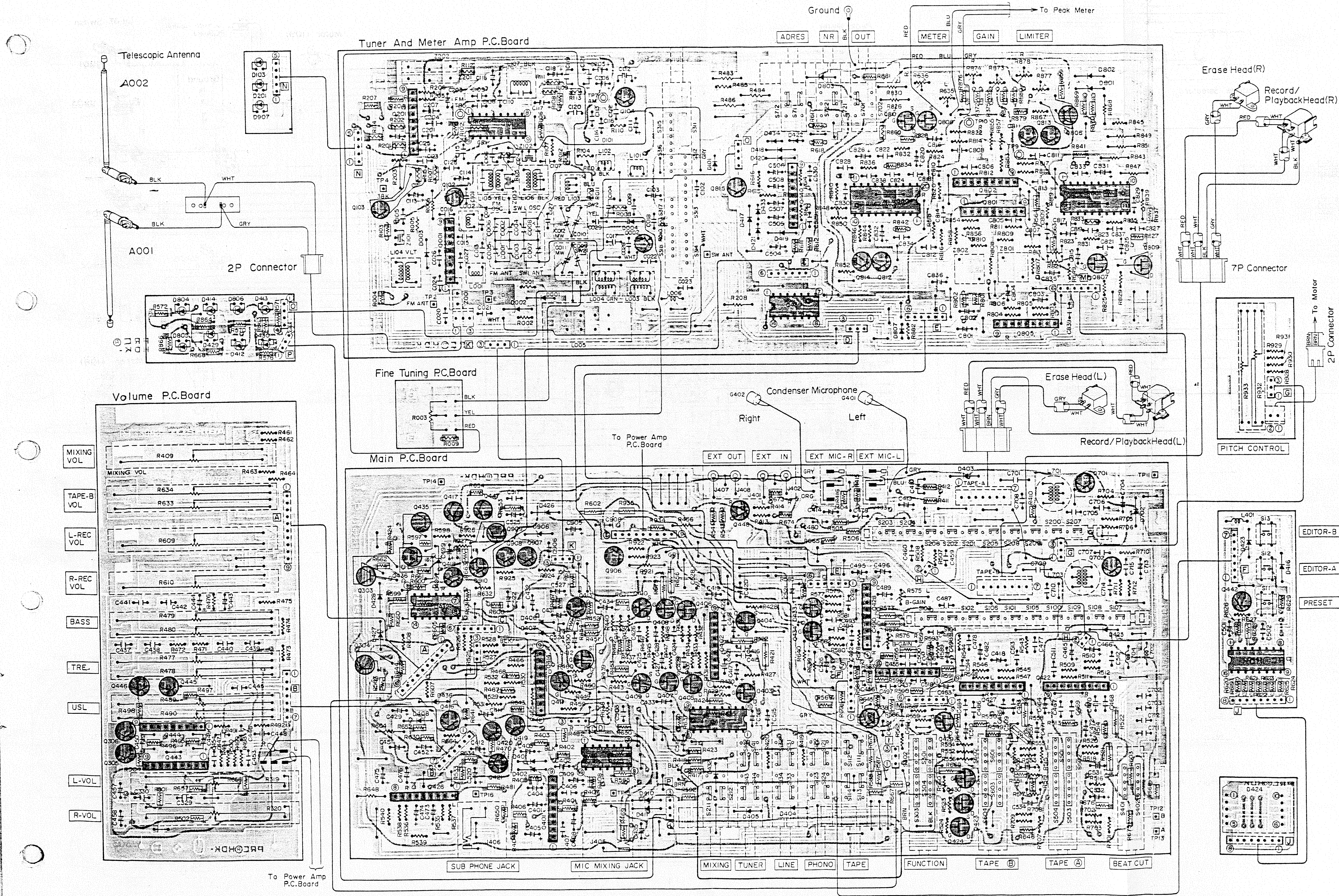

Ground
To Peak Meter
ADRES
NR
BLK
OUT
RED
BLU
GRY
METER
GAIN
LIMITER
Tuner And Meter Amp P.C.Board
Telescopic Antenna
A002
A001
2P Connector
BLK
WHT
GRY
Fine Tuning P.C.Board
R003
BLK
YEL
RED
Volume P.C.Board
MIXING VOL
TAPE-B VOL
L-REC VOL
R-REC VOL
BASS
TRE.
USL
L-VOL
R-VOL
Main P.C.Board
To Power Amp P.C.Board
Condenser Microphone
G402
G401
Right
Left
EXT OUT
EXT IN
EXT MIC-R
EXT MIC-L
Erase Head(R)
Record/PlaybackHead(R)
7P Connector
To Motor
2P Connector
PITCH CONTROL
Erase Head(L)
Record/PlaybackHead(L)
EDITOR-B
EDITOR-A
PRESET
D424
SUB PHONE JACK
MIC MIXING JACK
MIXING
TUNER
LINE
PHONO
TAPE
FUNCTION
TAPE Ⓑ
TAPE Ⓐ
BEAT CUT

Figure 37

Q403

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	1.4V

Q404

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	1.45V	4.9V

Q405

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.7V	4.8V

Q407

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.8V	4.9V

Q408

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	4.8V

Q409

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	1.1V

Q411

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.8V

Q412

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.8V

Q416

	B	C	E
OFF	0.6V	0V	0V
OFF	0V	6.8V	0V

Q419, Q420

	B	C	E
ON	4.2V	4.9V	4.9V
OFF	7.6V	4.9V	4.9V

Q421

	B	C	E
ON	0.7V	0V	0V
OFF	0V	7.7V	0V

Q433

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.7V

Q445, 446

	B	C	E
ON	4.3V	4.8V	4.8V

Q905

	B	C	E
ON	0.75V	0.1V	0V
OFF	0V	13.5V	0V

Q103 AUTO HIGH CUT

B	C	E
0.59V	0V	0V

Q104 LED DRIVE

		B	C	E
LED	ON	0.69V	0V	0V
	OFF	0.2V	8.1V	0V

Q304

	B	C	E
ON	9.1V	9.7V	9.8V
OFF	9.2V	0V	9.8V

Q305, Q306

	B	C	E
ON	0.7V	0V	0V
OFF	0V	0V	0V

Q413 ALC

B	C	E
0.65V	5.7V	0V

Q001

	1	2	3	4	5	6	7	8	9
FM	3.7V	4.4V	4.4V	4.4V	0V	4.4V	4.3V	0V	3.6V

Q101

	1	2	3	4	5	6	7	8
FM	0V	0V	8.34V	0V	3.7V	8.36V	0V	1.2V
AM SW	0V	0.19V (10:2V)	8.34V	0V	3.7V	8.3V	0.15V (10:1V)	1.2V
	9	10	11	12	13	14	15	16
FM	1.2V	0.85V	0V	0.85V	0V	7.8V	7.8V	7.2V
AM	1.2V	0V	1.37V	0V	2.0V	8.24V	8.24V	7.2V

Q201

	1	2	3	4	5	6	7	8	9
FM	3.37V	5.52V	6.9V	6.8V	0V	8.15V	6.25V	3.57V	3.64V

Q002

	B	C	E
ON	0.7V	0V	0V
OFF	0V	0V	0V

Q102

	B	C	E
ON	0.7V	0V	0V
OFF	0V	1.37V	0V

Q301, Q302

1	2	3	4	5	6	7	8	9	10	11	12
1.3V	1.4V	3.7V	0V	1.4V	1.3V	0V	7.5V	14V	15V	14V	7.6V

Q401

1	2	3	4	5	6	7	8	9
4.9V	5.5V	4.9V	4.2V	4.9V	4.9V	5.5V	9.8V	9.8V

Q402

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.8V	2.6V	0V	2.6V	4.8V	4.9V	9.9V

Q414 MIXING AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.9V	0V	4.9V	4.9V	4.9V	9.9V

Q422 TAPE Ⓑ REC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	2.9V	0V	2.9V	4.9V	4.9V	9.9V

Q426 HEADPHONE AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.8V	0V	4.8V	4.9V	4.9V	9.9V

Q427 TAPE Ⓐ REC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	2.6V	0V	2.7V	4.9V	4.9V	9.9V

Q428 TAPE Ⓐ PRE AMP

1	2	3	4	5	6	7	8	9
9.9V	4.8V	4.9V	4.9V	0V	4.9V	4.9V	4.8V	9.9V

Q440 METER AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.4V	0V	4.4V	4.9V	4.9V	9.9V

Q443

1	2	3	4	5	6	7	8	9
9.8V	4.9V	4.9V	4.8V	0V	4.8V	4.9V	4.9V	9.8V

Q444

1	2	3	4	5	6	7	8	9
9.8V	4.9V	4.9V	4.6V	0V	4.6V	4.9V	4.9V	9.8V

Q415 ALC

		1	2	3	4	5	6	7	8
ALC	ON	4.9V	4.9V	4.9V	4.4V	0V	4.2V	4.9V	4.1V
	OFF	4.9V	4.9V	4.9V	4.4V	0V	4.9V	4.9V	5.4V
		9	10	11	12	13	14	15	16
	ON	4.9V	4.9V	5.4V	4.2V	4.4V	9.7V	4.4V	4.9V
	OFF	6.9V	4.9V	0V	4.9V	4.4V	9.8V	4.4V	4.9V

Q437

	1	2	3	4	5	6	7	8	9
MQJS	5.2V	2.9V	0.9V	0.9V	0.1V	1.5V	1.0V	0.2V	5.0V
	0.1V	0.1V	0.1V	0.8V	0.1V	1.5V	0.1V	0.2V	5.0V

Q439

	1	2	3	4	5	6	7
TAPE Ⓑ PLAY	4.9V	4.9V	4.9V	4.9V	10.3V	10.3V	0V
TAPE Ⓐ → Ⓑ REC	4.9V	4.9V	4.9V	4.9V	0V	0V	0V
	8	9	10	11	12	13	14
TAPE Ⓑ PLAY	4.9V	4.9V	4.9V	4.9V	0V	0V	9.9V
TAPE Ⓐ → Ⓑ REC	4.9V	4.9V	4.9V	4.9V	9.2V	9.2V	9.9V

Q441

	1	2	3	4	5	6	7	8
	0.1V	1.0V	0.7V	8.8V	4.3V	0V	4.7V	0.1V
	9	10	11	12	13	14	15	16
H	4.1V	4.0V	4.1V	4.1V	4.1V	4.1V	4.1V	5.0V
L	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	5.0V

⑥PIN PRESET ON 4.7V

Q424

	1	2	3	4	5	6	7	8	9	10
H	1.9V	1.9V	1.9V	0V	0.1V	1.9V	1.9V	1.9V	1.9V	0.1V
L	0.1V	0.1V	0.1V	0V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V

10. ELECTRICAL PARTS LOCATIONS

Q406

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.7V

Q435

B	C	E
5.7V	9.9V	5V

Q410 PHONO

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	0.7V	4.9V

Q417

	B	C	E
ON	0.72V	0V	0V
OFF	0V	8.4V	0V
		0V	----TAPE Ⓐ PLAY

Q434

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.7V	4.8V

Q901

B	C	E
14.35V	15V	14V

Q807

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	0.52V	4.8V

Q808

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	0.65V

Q903

	B	C	E
ON	0.7V	0V	0V
OFF	0V	13.5V	0V

Q809 ON TAPE Ⓐ PLAY

	G	D	S
ON	1.0V	4.8V	4.8V
OFF	0V	4.8V	4.1V

Q810

	G	D	S
ON	1.0V	4.8V	4.8V
OFF	0V	4.1V	4.8V

Q904

	B	C	E
ON	0.7V	0V	0V
OFF	0V	13.5V	0V

Q811

		B	C	E
NR		6.6V	9.9V	6.5V
ADRES	OUT	0V	9.9V	4.8V
	IN	—	—	2.6V

Q913

	B	C	E
ON	14.3V	14.5V	15.0V
OFF	15.0V	0V	14.7V

Q812

		B	C	E
NR		6.6V	9.9V	6.4V
ADRES	OUT	0V	9.9V	4.9V
	IN	—	—	2.7V

Q438

	B	C	E
ON	0.6V	0V	0V
OFF	0V	10.3V	0V

Q442

	B	C	E
ON	0.55V	0V	0.2V
OFF	0.1V	0.1V	4.3V

Q447

	B	C	E
ON	0.6V	0V	0V
OFF	0V	8V	0V

Q448

	B	C	E
ON	8.7V	9.8V	9.6V
OFF	2.3V	1.8V	1.8V

Q423, Q424
Q429, Q430

	B	C	E
ON	1.5V	4.8V	4.8V
OFF	0V	4.1V	4.8V

Q806

B	C	E
8.6V	9.9V	8.0V

Q801 ADRES AMP & DC AMP

1	2	3	4	5	6	7	8	9
9.9V	1.4V	4.7V	4.6V	0V	4.9V	4.9V	4.9V	9.9V

Q803, Q804 ADRES CIRCUIT

1	2	3	4	5	6	7	8	9	10
0V	4.9V	5.6V	6.2V	4.9V	9.9V	5.1V	4.6V	4.9V	4.9V
11	12	13	14	15	16	17	18	19	20
4.9V	5.5V	4.9V	5.5V	0V	6.2V	5.6V	5.4V	4.9V	9.9V

Q802 ADRES AMP & DC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.9V	0V	4.6V	4.7V	1.4V	9.9V

Q813

		B	C	E
NR		6.8V	0V	6.5V
ADRES	OUT	6.8V	0V	4.8V
	IN	6.8V	0V	2.6V

Q814

		B	C	E
NR		6.9V	0V	6.4V
ADRES	OUT	6.9V	0V	4.9V
	IN	6.9V	0V	2.7V

Q815

	B	C	E
ON	10.3V	9.9V	9.7V
OFF	0V	9.9V	0V

Q805

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.4V	0V	4.4V	4.9V	4.9V	9.9V

Q436

	B	C	E
ON	0.9V	0.27V	0.27V
OFF	0.7V	4.1V	0.6V

Q437

	B	C	E
ON	1.3V	0.8V	0.6V
OFF	0.6V	3.6V	0.2V

Q436 is ON, Q437 OFF in normal operation. Q436 is OFF and Q437 ON in MUTING due to reduced voltage. Measured at 7V.

Q701, Q702

		B	C	E
PLAY		0V	0V	0V
REC	METAL	0.5V	7.8V	0.2V
	CrO_2	—	5.6V	0.15V
	Nor	—	4.2V	0.1V

Q906

B	C	E
10.3V	14V	9.9V

Q907

B	C	E
5.5V	5.5V	4.9V

Q908

B	C	E
5.9V	9.1V	4.9V

Q909

B	C	E
4.2V	4.2V	4.9V

Q910

B	C	E
4.2V	0.15V	4.9V

Q907–Q910: Center potentioal Circuit

Q911

	B	C	E
ON	—	—	—
OFF	0.15V	14.5V	0V

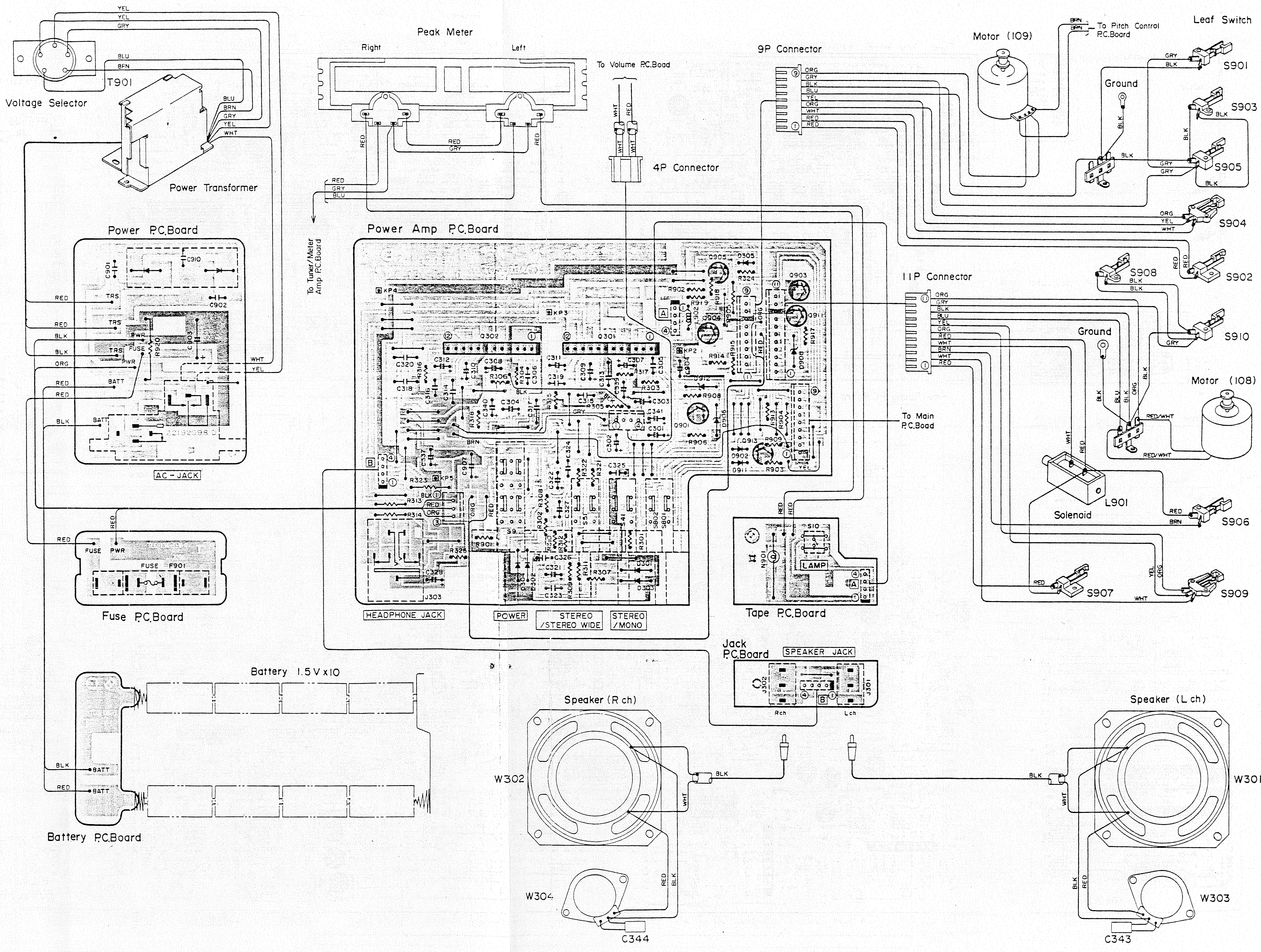
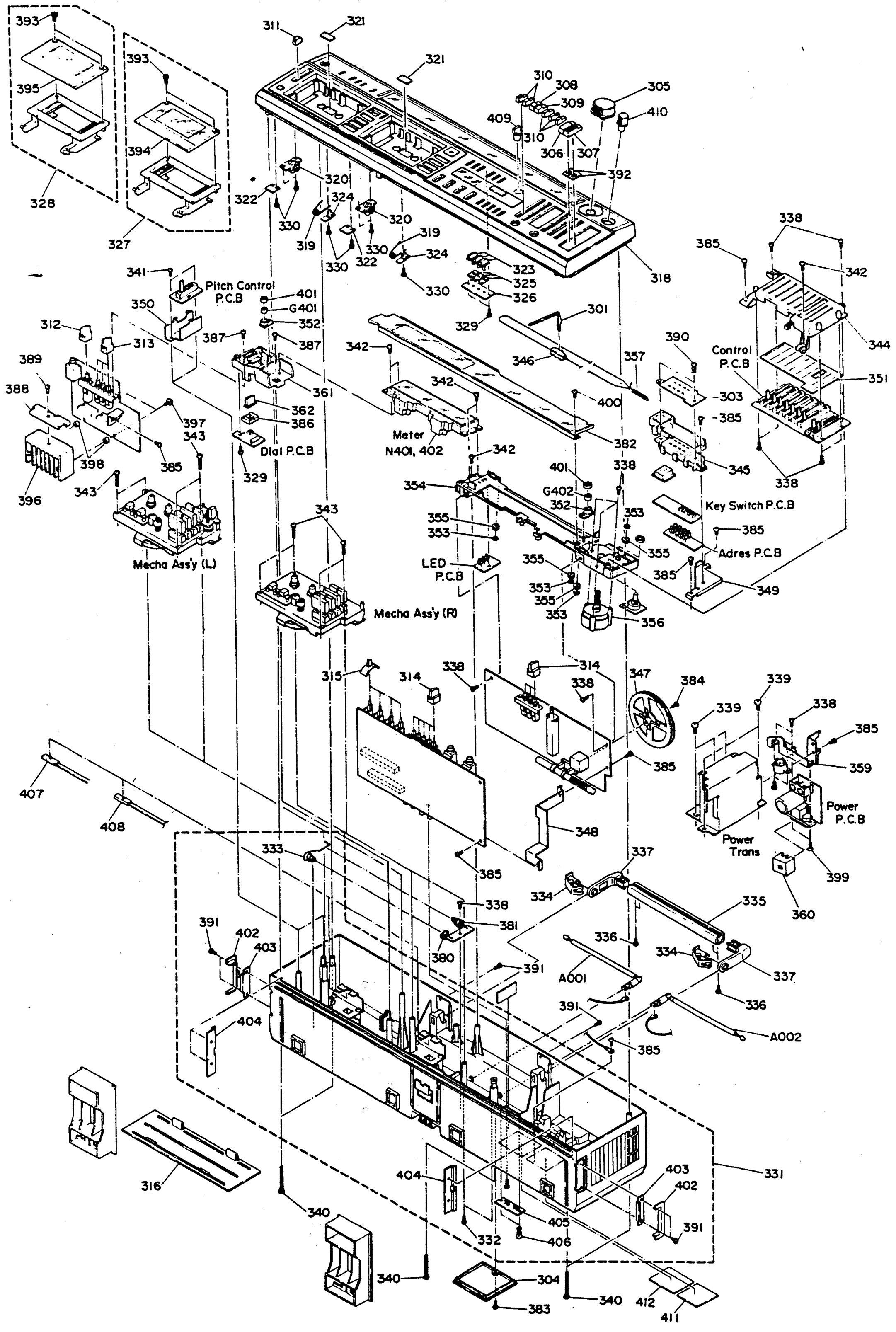

Voltage Selector
T901
Power Transformer
YEL
GRY
BLU
BRN
WHT
Peak Meter
Right
Left
To Volume P.C.Boad
4P Connector
9P Connector
Motor (109)
To Pitch Control P.C.Board
Leaf Switch
S901
Ground
S903
S905
S904
S902
S908
S910
Motor (108)
11P Connector
To Main P.C.Boad
To Tuner/Meter Amp P.C.Board
Power P.C.Board
C901
C910
C902
TRS
PWR
FUSE
BATT
AC-JACK
Power Amp P.C.Board
Q302
Q301
Q905
Q903
Q911
Q901
Q902
KP2
KP3
KP4
KP5
HEADPHONE JACK
POWER
STEREO /STEREO WIDE
STEREO /MONO
J303
Fuse P.C.Board
F901
Tape P.C.Board
S10
LAMP
N901
Solenoid
L901
S906
S907
S909
RED/WHT
ORG
BLK
RED
Jack P.C.Board
SPEAKER JACK
J302
J301
Rch
Lch
Battery 1.5V x10
Battery P.C.Board
Speaker (R ch)
Speaker (L ch)
W302
W301
W304
W303
C344
C343

Figure 38

11-1. EXPLODED VIEW (CABINET)


393
395
394
328
327
311
321
310
308
309
305
410
409
306
307
392
320
324
322
330
319
323
325
326
318
341
Pitch Control P.C.B
350
401
G401
352
387
312
313
389
388
342
361
362
386
Dial P.C.B
397
343
398
385
396
Mecha Ass'y (L)
329
329
301
346
357
390
Control P.C.B
303
385
344
351
338
342
Meter N401, 402
400
382
401
G402
352
345
Key Switch P.C.B
354
355
353
LED P.C.B
Adres P.C.B
349
356
Mecha Ass'y (R)
315
314
347
384
339
359
Power P.C.B
Power Trans
399
360
407
408
348
333
337
334
335
336
381
380
391
A001
A002
402
403
404
316
340
331
405
406
332
304
383
412
411

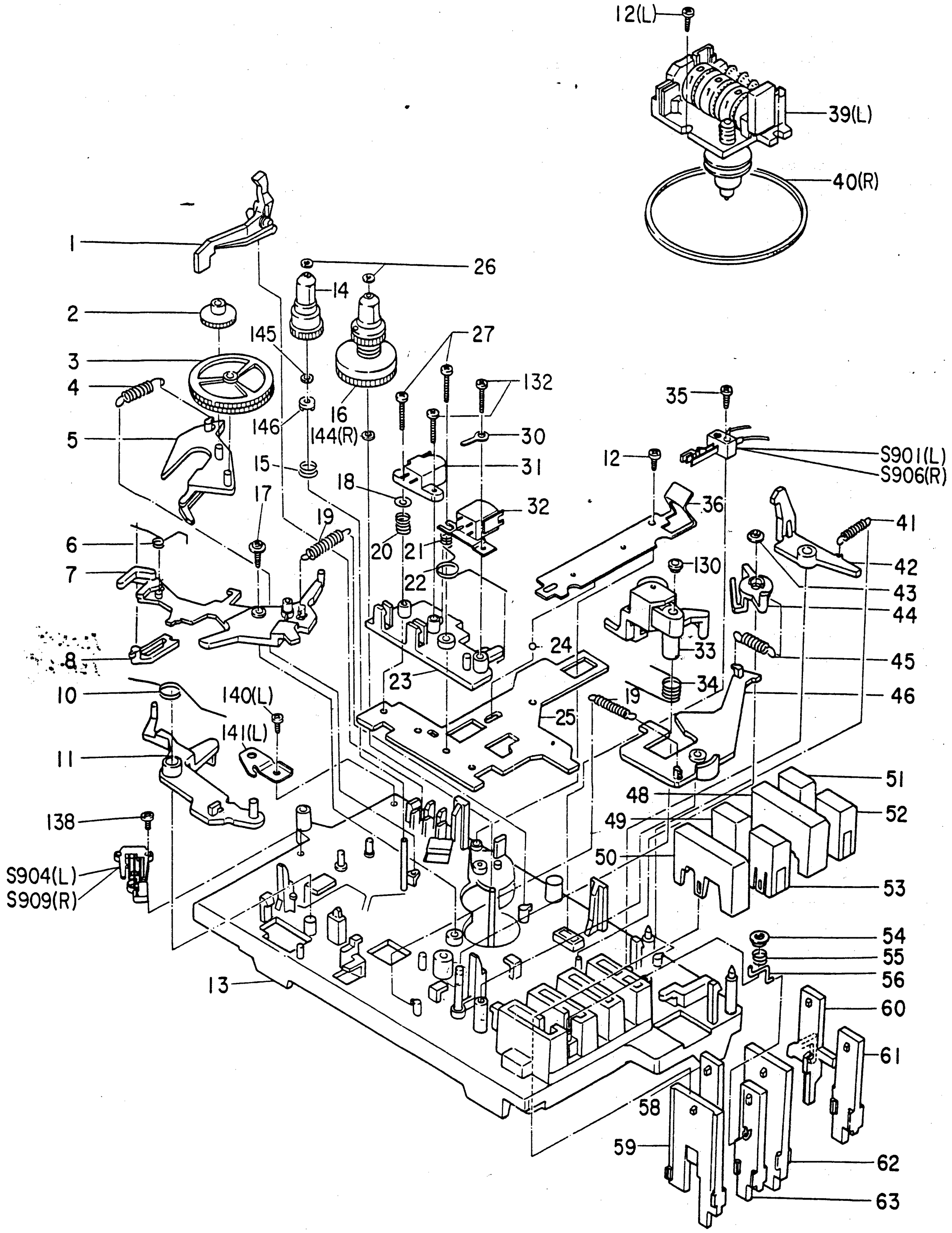
NOTE: Parts excluded in the parts list are not available as replacement parts.

Figure 39

11-2. EXPLODED VIEW (CABINET) PARTS LIST

Symbol No.	Part No.	Description
301	22741381	Pointer
303	25808175	Decoration, Adres LED
304	25881588	Back Cover Ass'y
305	25837666	Knob, Tuning
306	25837908	Knob, Main Volume, L
307	25837907	Knob, Main Volume, R
308	25837771	Knob, Record Volume, L
309	25837772	Knob, Record Volume, R
310	25837773	Knob, Slide
311	25837774	Knob, Tape Speed Control
312	25837776	Button, Power
313	25837777	Button, Push
314	25837779	Knob, Push
315	25837781	Knob, Lever
316	25881189	Cover, Battery
318	25881682	Cabinet Ass'y, Front
319	25775233	Spring, Torsion
320	25791314	Damper Unit
321	25824247	Reflector
322	25835464	Bracket, Cassette
323	25837778	Knob, MQJS
324	25846568	Bracket, Shaft
325	25857063	Cushion, MQJS
326	25857064	Plate, MQJS
327	25881404	Cover Ass'y, Cassette, R
328	25881405	Cover Ass'y, Cassette, L
329	22701326	Screw, 3φ x 8mm, BID-TP
330	22707118	Screw, 3φ x 12mm, BID-TP
331	25881683	Cabinet Ass'y, Back
332	22701452	Screw, 3φ x 12mm, BID
333	25777117	Spring, Battery
334	25835439	Shaft, Handle
335	25835438	Handle
336	22707693	Screw, 3φ x 8mm, BID
337	25835437	Holder, Handle
338	22707165	Screw, 3φ x 10mm, BID-TP
339	22701438	Screw, 4φ x 10mm, BID-TP
340	22701334	Screw, 3φ x 35mm
341	22707116	Screw, 3φ x 10mm, BID-TP
342	22707117	Screw, 3φ x 12mm, BID-TP
343	22707531	Screw, 3φ x 20mm, BID-TP
344	22714156	Frame, Variable Resistor
345	22714161	Frame, ADRES
346	22741382	Cursor
347	22742219	Drum, Dial
351	25857065	Sheet, Variable Resistor
352	25857111	Cushion, Microphone
353	22702125	Nut, 2.4φ
354	22714154	Frame, Tuner
355	22742162	Pulley, Dial
356	22749322	Tuning Shaft
357	25771548	Spring, Dial Drum
360	22167688	Back Cover, Jack
361	22714155	Frame, Level Meter
362	25837775	Knob, Dial Light
363	22707536	Screw, 3φ x 10mm, BID
380	25772570	Spring, Battery
381	25772571	Spring, Battery
382	25881586	Dial Scale Ass'y
383	22707382	Screw, 3φ x 10mm, BID
384	22707473	Screw, 2.6φ x 6mm, BID
385	22707066	Screw, 3φ x 6mm
387	22701325	Screw, 3φ x 8mm, BID
389	22701452	Screw, 3φ x 12mm, BID
390	22705026	Rivet, 3φ x 6.5mm
391	22701457	Screw, 3φ x 6mm, BID
392	20748046	Spacer
393	22707781	Decoration Screw
397	22707456	Screw, 3φ x 8mm, FLDT
399	22707800	Screw, 3φ x 12mm, 2DTOVL
400	22707118	Screw, 3φ x 12mm, BID-TP
401	22758394	Cap, Microphone
405	22162461	Terminal, 2P
406	22705022	Rivet, 3φ x 5.5mm
407	22196028	Remote Wire (LONG)
408	22196029	Remote Wire (SHORT)
409	25837906	Knob, Band Select
410	25837911	Knob, Fine Tuning
411	25808360	Nameplate
412	25808363	Plate, Caution

12-1. EXPLODED VIEW MECHANISM (UPPER)


12(L)
39(L)
40(R)
1
2
3
4
5
6
7
8
10
11
138
S904(L)
S909(R)
13
26
14
145
27
132
16
146
144(R)
30
15
31
17
18
32
19
20
21
22
23
24
25
35
12
S901(L)
S906(R)
36
130
41
42
43
44
33
45
34
46
19
140(L)
141(L)
51
48
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49
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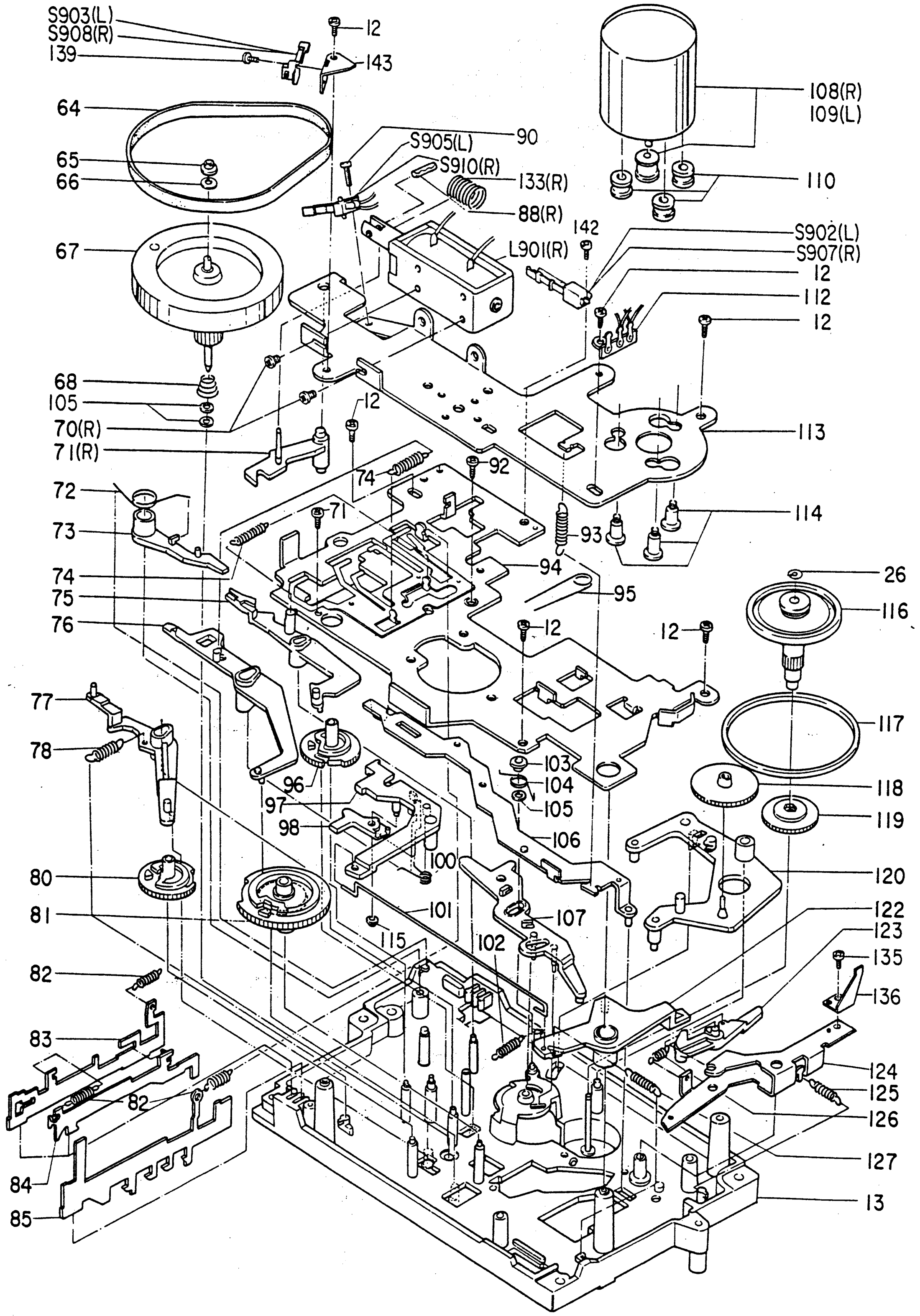
63

NOTE: Parts excluded in the parts list are not available as replacement parts.

Figure 40

12-2. EXPLODED VIEW MECHANISM (LOWER)


S903(L)
S908(R)
139
12
143
64
65
66
S905(L)
90
S910(R)
133(R)
88(R)
L901(R)
142
108(R)
109(L)
110
S902(L)
S907(R)
12
112
12
67
68
105
70(R)
71(R)
12
113
72
74
92
73
71
93
114
74
94
75
95
76
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12
26
116
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117
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107
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123
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125
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126
127
84
13
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NOTE: Parts excluded in the parts list are not available as replacement parts.

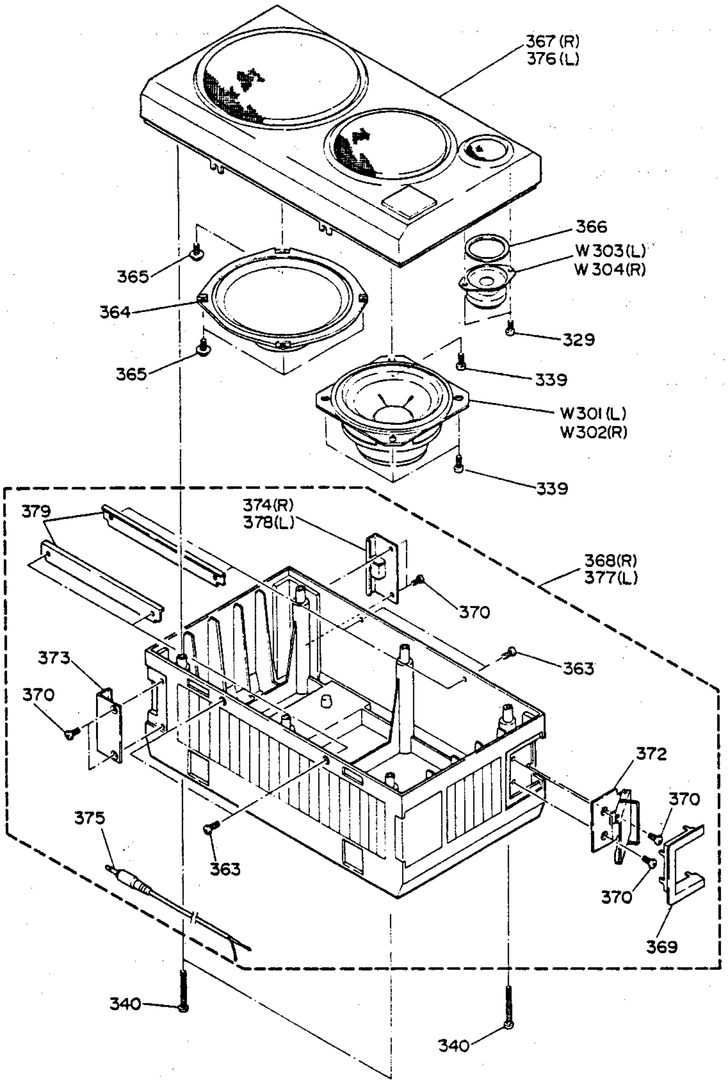
Figure 41

12-3. PARTS LIST (MECHANISM)

Symbol No.	Part No.	Description
1	25782511	Lever, Record Lock
2	25756280	Gear, Rewind
3	25756279	Gear, Fast-forward
4	25776432	Spring
5	25782509	Lever, Fast-forward Gear
6	25778013	Spring, Rewind
7	25782507	Lever, Fast Drive
8	25783266	Slider, Rewind Drive
10	25778008	Spring, Play Lever
11	25782505	Lever, Play Drive
12	22707301	Screw, 2.6ϕ x 8mm, BID-TP
13	25791505	Main Chassis Ass'y
14	25754402	Reel Plate Ass'y, Supply
15	25777099	Spring, Supply Reel Plate
16	25712409	Reel Plate Ass'y, Take-up
17	22707825	Screw, 2.6ϕ x 6mm, TPAN
18	22703281	Washer, 2.6ϕ
19	25776431	Spring
20	25772579	Spring, Erase Head
21	25777056	Spring, Head
22	25778007	Spring, Head Slider
24	25757129	Stell Ball, 2ϕ
26	25766050	Washer
27	22707602	Screw, 2ϕ x 10mm, DTBID
31	22218249	Erase Head
32	22217362	Record/Playback Head
33	25717516	Pressure Roller Ass'y
34	25778006	Spring, Pressure Roller
35	22707303	Screw, 2.6ϕ x 10mm, BID-TP
36	25779240	Spring, Holder
39	25873238	Tape Counter
40	25755529	Belt, Tape Counter
41	25776436	Spring, Lock Holder
42	25782512	Lever, Lock Holder
43	25783195	Bush
44	25782510	Lever, ASO Pause
45	25776418	Spring
46	25782506	Lever, Pause
48	25816687	Button, Play
49	25816689	Button, Record
50	25816690	Button, Stop/Eject
51	25816686	Button, Rewind
52	25816685	Button, FF
53	25816688	Button, Pause
54	25783279	Bush
55	25777097	Spring, Pause Lock
56	25775231	Wire, Pause Lock
58	25783271	Slider, Record
59	25783272	Slider, Stop
60	25783269	Slider, Rewind
61	25783268	Slider, FF
62	25783267	Slider, Play
63	25783270	Slider, Pause
64	25755527	Belt, Drive
65	25725340	Bearing
66	25766089	Washer
67	25717517	Flywheel Ass'y
68	25777108	Spring, Thrust
70	22701389	Screw, 2.6ϕ x 3mm, BID
71	25782508	Lever, Search
72	25778012	Spring, ASO Lever

Symbol No.	Part No.	Description
73	25782521	Lever, ASO
74	25776437	Spring
75	25782514	Operation Lever, FF
76	25782513	Operation Lever, Play
77	25782515	Operation Lever, Pause
78	25776420	Spring
80	25756282	Cam Gear, Pause
81	25756281	Cam Gear, Play
82	25776417	Spring
83	25741924	Slider, Switch
84	25741925	Slider, Eject
85	25741923	Slider, Lock
88	22707183	Spring Pin, Solenoid
90	22707169	Screw, 2.6ϕ x 10mm, DTBID
92	22707299	Screw, 2ϕ x 8mm, BID-TP
93	25776445	Spring
94	25734462	Sub Plate Ass'y
95	25778014	Spring, Rewind Slider
96	25756283	Cam Gear, Fast
97	25782522	Lever, Play Stop
98	25782516	Lever, Record
100	25778015	Spring
101	25775232	Wire, Record
102	25776419	Spring
103	25783226	Bush
104	25778011	Spring, Detect Lever
105	25766073	Washer, ASO
107	25782520	Lever, ASO Detect
108	25791506	Motor Ass'y
109	25781520	Motor Ass'y
110	25761238	Cushion, Motor
112	22161271	Terminal Board
114	22707429	Screw, 2.6ϕ x 6.7mm
115	25783199	Washer
116	25713559	Pulley Ass'y, Center
117	25755528	Belt, Center
118	25756284	Gear, Take-up
119	25756285	Gear, Fast
120	25782519	Lever, Take-up
122	25782517	Lever, Record Bias
123	25782518	Lever, Record Select
124	25748595	Lever, Record
125	25776433	Spring, Record Lever
126	25776435	Spring, Record Select Lever
127	25776434	Spring, Record Bias Lever
128	25779283	Spring
130	25783260	Bush
132	22707669	Screw, 2ϕ x 12mm, DTBID
133	25777133	Spring, Solenoid
135	22707366	Screw, 2.6ϕ x 6mm, DTBID
138	22707592	Screw, 2ϕ x 10mm, BID-TP
139	22707837	Screw, 2ϕ x 5mm, PAN
140	22707369	Screw, 2.6ϕ x 12mm, DTBID
142	22707426	Screw, 2ϕ x 5mm, DTBID
144	25766090	Washer
145	25764597	Washer
146	25754441	Spacer
No 1507 147	25766042	WASHER, CENTER PULLEY ASSY

13-1. EXPLODED VIEW (SPEAKERS)


367 (R)
376 (L)
366
W303(L)
W304(R)
365
364
365
329
339
W301 (L)
W302(R)
339
379
374(R)
378(L)
368(R)
377(L)
370
373
370
363
372
370
375
363
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369
340
340

Figure 42

13-2. PARTS LIST (SPEAKERS)

Symbol No.	Part No.	Description
329	22701326	Screw, 3ϕ x 8mm, BID-TP
339	22701438	Screw, 4ϕ x 10mm, BID-TP
340	22701334	Screw, 3ϕ x 35mm
363	22707536	Screw, 3ϕ x 10mm, BID
364	20831376	Passive Radiator
365	22701436	Screw, 3ϕ x 8mm, TPPAN
366	25857104	Spacer, Tweeter
367	25881582	Box Ass'y, Speaker, Right
368	25881584	Back Cabinet, Speaker, R

Symbol No.	Part No.	Description
369	25832595	Decoration, Joint Speaker
370	22707778	Screw, 3ϕ x 12mm, OVL
372	25881357	Joint Rock Ass'y
373	25847255	Joint Bracket, Bottom
374	25847258	Joint Bracket, R
375	22166153	Cord, Speaker
376	25881583	Box Ass'y, Speaker, Left
377	25881585	Back Cabinet, Speaker, L
378	25847267	Joint Bracket, L

14. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TRANSISTORS, IC's AND DIODES		
Q001	B0325270	IC, TA7335P
Q002	A6319020	Transistor, 2SC1923-O
Q101	B0355431	IC, TA7614AP-Y
Q102	A6317460	Transistor, 2SC1815NEW-GR
Q103, 104	A6317460	Transistor, 2SC1815NEW-GR
Q201	B0325350	IC, TA7343P
No 1308 Q301, 302	B0320126 ~~B0320120~~	IC, TA7240AP ~~IC, TA7240P~~
Q303	A6317460	Transistor, 2SC1815NEW-GR
Q304	A6534060	Transistor, 2SA1015-GR
Q305, 306	A6317460	Transistor, 2SC1815NEW-GR
Q401	B0312570	IC, TA7137P-STY
Q402	B0350510	IC, TA75558S
Q403, 404	A6041860	Transistor, 2SK117-GR
Q405, 406	A6048310	Transistor, 2SK30A-TM.R
Q407, 408	A6048310	Transistor, 2SK30A-TM.R
Q409, 410	A6048310	Transistor, 2SK30A-TM.R
Q411, 412	A6048310	Transistor, 2SK30A-TM.R
Q413	A6317460	Transistor, 2SC1815NEW-GR
Q414	B0350510	IC, TA75558S
Q415	B0275035	IC, TD62507P
Q416, 417	A6317460	Transistor, 2SC1815NEW-GR
Q418	A6317460	Transistor, 2SC1815NEW-GR
Q419, 420	A6534060	Transistor, 2SA1015-GR
Q421	A6317460	Transistor, 2SC1815NEW-GR
Q422	B0350510	IC, TA75558S
Q423, 424	A6048310	Transistor, 2SK30A-TM.R
Q425	B0470162	IC, TC4016BP
Q426	B0350410	IC, TA75557S
Q427	B0350510	IC, TA75558S
Q428	B0350510	IC, TA75558S
Q429, 430	A6048310	Transistor, 2SK30A-TM.R
Q432	B0470162	IC, TC4016BP
Q433, 434	A6048310	Transistor, 2SK30A-TM.R
Q435	A6319300	Transistor, 2SC1959NEW-Y
Q436	A6317460	Transistor, 2SC1815NEW-GR
Q437	B0325320	IC, TA7341P
Q438	A6317460	Transistor, 2SC1815NEW-GR
Q439	B0470162	IC, TC4016BP
Q440	B0350510	IC, TA75558S
Q441	B0411385	IC, TC9138AP
Q442	A6317460	Transistor, 2SC1815NEW-GR
Q443, 444	B0350510	IC, TA75558S
Q445, 446	A6534060	Transistor, 2SA1015-GR
Q447, 448	A6317460	Transistor, 2SC1815NEW-GR
Q701, 702	A6333320	Transistor, 2SC2655-Y
Q801, 802	B0350510	IC, TA75558S
Q803, 804	B0354510	IC, TA7605AP
Q805	B0350510	IC, TA75558S
Q806	A6317460	Transistor, 2SC1815NEW-GR
Q807, 808	A6048310	Transistor, 2SK30A-TM.R
Q809, 810	A6048310	Transistor, 2SK30A-TM.R
Q811, 812	A6317460	Transistor, 2SC1815NEW-GR
Q813, 814	A6534060	Transistor, 2SA1015-GR
Q815	A6317460	Transistor, 2SC1815NEW-GR
Q901	A6848520	Transistor, 2SD880-Y
Q903, 904	A6321240	Transistor, 2SC2120-Y
Q905	A6319300	Transistor, 2SC1959NEW-Y
Q906	A6848520	Transistor, 2SD880-Y
Q907, 908	A6317460	Transistor, 2SC1815NEW-GR
Q909, 910	A6534060	Transistor, 2SA1015-GR
Q911	A6333320	Transistor, 2SC2655-Y
Q913	A6534060	Transistor, 2SA1015-GR
D001, 002	A7246703	Diode, 1S1555V
D003	A7246703	Diode, 1S1555V
D004	A7289000	Diode, 1S2236
D101	A7246703	Diode, 1S1555V
D103	A8606630	Diode, TLG205
D201	A8603110	Diode, TLR205
D301, 302	A7246703	Diode, 1S1555V
D303, 304	A7246703	Diode, 1S1555V
D305	A7246703	Diode, 1S1555V

Symbol No.	Part No.	Description
D401, 402	A7246703	Diode, 1S1555V
D403, 404	A7246703	Diode, 1S1555V
D405, 406	A7246703	Diode, 1S1555V
D407, 408	A7246703	Diode, 1S1555V
D409	A7110041	Diode, 05Z5.1-Y
D410, 411	A7246703	Diode, 1S1555V
D412, 413	A8603110	Diode, TLR205
D414	A8603110	Diode, TLR205
D416	A7246703	Diode, 1S1555V
D417, 418	A7246703	Diode, 1S1555V
D419, 420	A7246703	Diode, 1S1555V
D421, 422	22115808	Diode, 1K60A
D423	A7246703	Diode, 1S1555V
D424	A8620350	Diode, TLR308
D425, 426	A7246703	Diode, 1S1555V
D427	A7109363	Diode, 05Z3.6-Y
D428	A7246703	Diode, 1S1555V
D429, 430	A8606630	Diode, TLG205
D432	A7246703	Diode, 1S1555V
D433, 434	22115808	Diode, 1K60A
D435, 436	A7246703	Diode, 1S1555V
D437, 438	A7246703	Diode, 1S1555V
D439	A7246703	Diode, 1S1555V
D701, 702	A7246703	Diode, 1S1555V
NO 1368 D801	A7110160 ~~A7286500~~	Diode, 05Z7.5-Y ~~02Z7.5A~~
D802, 803	A7246703	Diode, 1S1555V
D804, 806	A8603110	Diode, TLR205
D805	A8606630	Diode, TLG205
D807	A7246703	Diode, 1S1555V
⚠ D901	A7683100	Diode, 5B2C11
D902	A7246703	Diode, 1S1555V
D905	A7110115	Diode, 05Z6.8-Y
D906	A7110208	Diode, 05Z8.2-Y
D907	A8603110	Diode, TLR205
D908, 909	A7246703	Diode, 1S1555V
D910, 911	A7246703	Diode, 1S1555V
D912	A7110160	Diode, 05Z7.5-Y
D913	A7246703	Diode, 1S1555V

COILS AND TRANSFORMERS

Symbol No.	Part No.	Description
L001	22294003	Coil, RF, FM
L002	22294016	Coil, Oscillator, FM
L003	22282168	Coil, Antenna, SW2
L004	22282233	Coil, Antenna, SW1
L005	22242913	Coil, Antenna, MW
L006	22291103	Coil, 1.5 μH
L101	22285320	Coil, Oscillator, SW2
L102	22285319	Coil, Oscillator, SW1
L103	22245385	Coil, Oscillator, MW
L104	22265764	IF Transformer, FM
L105	22264768	IF Transformer, AM
L106	22264746	IF Transformer, AM
L107	22267350	IF Transformer, FM
L401	22241062	Coil, Choke, 330 μH
L701, 703	22235019	Coil, Oscillator, Tape
L702, 704	22241062	Coil, Choke, 330 μH
L901	22147241	Solenoid
L902	22241063	Coil, Choke, 39 μH
⚠ T901	22224187	Transformer, Power

ELECTRICAL PARTS

Symbol No.	Part No.	Description
S10, 11	22196033	Key Switch, Lamp, Preset
S12, 13	22196033	Key Switch, Editor A, B
S100 ∿ 109	22195409	Slide Switch, Record/P.B.
S200 ∿ 209	22195409	Slide Switch, Record/P.B.
S111 ∿ 114,	22196024	Push Switch, Tape
S121 ∿ 124,	22196024	Push Switch, Phono
S131 ∿ 134,	22196024	Push Switch, Line
S141 ∿ 144,	22196024	Push Switch, Tuner
S211	22196024	Push Switch, Mixing
S301 ∿ 304	22195420	Lever Switch, Function
S311 ∿ 318	22196026	Rotary Switch, Band Select
S401 ∿ 402	22195449	Lever Switch, Beat
S501 ∿ 504	22195420	Lever Switch, Tape A
S601 ∿ 604	22195420	Lever Switch, Tape B
S701, 702,	22196027	Push Switch, OFF
S711, 712,	22196027	Push Switch, Adres
S721, 722	22196027	Push Switch, NR
S801, 802,	22196022	Push Switch, Repeat
⚠ S9,	22196022	Push Switch, Power
S41,	22196022	Push Switch, Stereo/Mono
S51	22196022	Push Switch, ST/Stereo Wide
S901, 905, S906, 910	22195983	Leaf Switch
S902, 907	22195885	Leaf Switch
S903, 908	22196068	Leaf Switch
S904, 909	22196087	Leaf Switch
⚠ S911	22195989	Rotary Switch, Volt Select
J301, 302	22163785	Jack, Speaker, 3.5ϕ
J303	22163908	Jack, Headphone, 6ϕ

Symbol No.	Part No.	Description
J401, 402, J407, 408	22163887	Jack, Line Out, Aux/Phono
J403, 404	22163865	Jack, Mic, 3.5ϕ
J405, 406	22163907	Jack, Mic Mixing, Sub Phone
⚠ J901	22167876	Socket, AC
Z001 No. 1563	22153121	Filter, RF, FM
Z101, 102	22153122 ~~22153079~~	Filter, Ceramic, 10.7 MHz
Z103	22153070	Filter, Ceramic, 455 kHz
Z201, 202	22153078	Filter, MPX
Z801, 802	22153186	Filter
G401, 402	22154212	Microphone Unit
W301, 302	2511084 [redacted]	Speaker, [redacted] KIT
W303, 304	22152412	Speaker, 4 cm
A001, 002	22124700	Rod Antenna
⚠ F901	22144457	Fuse, 125V, 6.3A
N401, 402	22104578	Meter
N901	22113568	Lamp, 12V, 110mA
EP01	22113577	Meter Lamp, 6.3V, 110mA
EP02	22165047	Holder, Fuse

CAPACITORS

D = ±0.5%, G = ±2%, J = ±5%, K = ±10%, M = ±20%,
Z = –20 + 80%

ABBREVIATIONS: CD = Ceramic Disk, MY = Mylar
PP = Polypropylene, EL = Electrolytic,
BL = Barrier Layer

Symbol No.	Part No.	Description
C001, 002, C003, 004, C005, 006, C007, 008	22308426	Variable Capacitor
C009, 010, C011, 012	22309183	Trimmer
C013	22361220	CD, 22pF, 50V, J
C014	22360134	CD, 22pF, 50V, J
C015	22360132	CD, 15pF, 50V, J
C016	22362470	CD, 47pF, 50V, K
C017	22361609	CD, 6pF, 50V, D
C018	22262150	CD, 15pF, 50V, K
C019	22361509	CD, 5pF, 50V, D
C020	22349391	CD, 390pF, 50V, K
C021	22342223	CD, 0.022mfd, 50V, Z
C022	22362560	CD, 56pF, 50V, K

Symbol No.	Part No.	Description
C023	22360134	CD, 22pF, 50V, J
C024	22342223	CD, 0.022mfd, 50V, Z
C025	22361509	CD, 5pF, 50V, D
C026	22349391	CD, 390pF, 50V, K
C027	22342223	CD, 0.022mfd, 50V, Z
C028	22361~~709~~ 409	CD, ~~7~~ 4pF, 50V, D No. 11 99
C029	22342223	CD, 0.022mfd, 50V, Z
C101	22349472	CD, 4700pF, 50V, K
C102	22342223	CD, 0.022mfd, 50V, Z
C103	22321050	PP, 360pF, 50V, J
C104	22321058	PP, 1200pF, 50V, J
C105	22342223	CD, 0.022mfd, 50V, Z
C106	22342223	CD, 0.022mfd, 50V, Z
C107	22342473	CD, 0.047mfd, 50V, Z
C108	22360329	BL, 0.022mfd, 25V, M
C109	22342223	CD, 0.022mfd, 50V, Z
C110	22362101	CD, 100pF, 50V, K
C111	22488339	EL, 3.3mfd, 50V
C112 No. 1217	22~~488108~~ 360329	BL, 0.015MFD, 25V ~~EL, 0.1mfd, 50V~~
C113	22488478	EL, 0.47mfd, 50V
C114	22483101	EL, 100mfd, 10V
C115	22349391	CD, 390pF, 50V, K
C116	22483101	EL, 100mfd, 10V
C117	22483470	EL, 47mfd, 10V
C118	22488339	EL, 3.3mfd, 50V
C119	22342223	CD, 0.022mfd, 50V, Z
C120	22342223	CD, 0.022mfd, 50V, Z
C121	22485100	EL, 10mfd, 16V
C122	22342223	CD, 0.022mfd, 50V, Z
C123	22360327	BL, 0.01mfd, 25V, M
C124	22342223	CD, 0.022mfd, 50V, Z
C125	22488339	EL, 3.3mfd, 50V
C127	22342223	CD, 0.022mfd, 50V, Z
C201	22488478	EL, 0.47mfd, 50V
C202	22488109	EL, 1mfd, 50V
C203	22483101	EL, 100mfd, 10V
C204	22321057	PP, 1000pF, 50V, J
C205, 206	22488339	EL, 3.3mfd, 50V
C207	22488109	EL, 1mfd, 50V
C301, 302	22488109	EL, 1mfd, 50V
C303, 304	22485330	EL, 33mfd, 16V
C305, 306	22360326	BL, 6800pF, 50V, M
C307, 308	22488109	EL, 1mfd, 50V
C309, 310	22483101	EL, 100mfd, 10V
C311, 312	22483101	EL, 100mfd, 10V
C313, 314	22373154	MY, 0.15mfd, 50V, M
C315, 316	22373823	MY, 0.082mfd, 50V, M
C317, 318	22373154	MY, 0.15mfd, 50V, M
C319, 320	22373823	MY, 0.082mfd, 50V, M
C321, 322	22488339	EL, 3.3mfd, 50V

Symbol No.	Part No.	Description
C323, 324	22360331	BL, 0.047mfd, 25V, M
C325, 326	22349472	CD, 4700pF, 50V, K
C327	22488339	EL, 3.3mfd, 50V
C328	22483101	EL, 100mfd, 10V
C329, 330	22349471	CD, 470pF, 50V, K
C339, 340	22485330	EL, 33mfd, 16V
C341	22483470	EL, 47mfd, 10V
C343, 344	22475479	EL, 4.7mfd, 16V, BP
C401	22485100	EL, 10mfd, 16V
C402	22483101	EL, 100mfd, 10V
C403	22488109	EL, 1mfd, 50V
C404	22485100	EL, 10mfd, 16V
C405	22488478	EL, 0.47mfd, 50V
C406	22361100	CD, 10pF, 50V, D
C407	22349103	CD, 0.01mfd, 50V, K
C408	22485100	EL, 10mfd, 16V
C409	22483470	EL, 47mfd, 10V
C410	22483221	EL, 220mfd, 10V
C411, 412	22488228	EL, 0.22mfd, 50V
C413, 414	22360333	BL, 0.1mfd, 25V, M
C415, 416	22349471	CD, 470pF, 50V, K
C417, 418	22485330	EL, 33mfd, 16V
C419, 420	22483101	EL, 100mfd, 10V
C421, 422	22362101	CD, 100pF, 50V, K
C423, 424	22372562	MY, 5600pF, 50V, K
C425, 426	22372563	MY, 0.056mfd, 50V, K
C427, 428	22488228	EL, 0.22mfd, 50V
C429	22486220	EL, 22mfd, 25V
C430	22488478	EL, 0.47mfd, 50V
C431	22488478	EL, 0.47mfd, 50V
C432	22483470	EL, 47mfd, 10V
C433, 434	22488339	EL, 3.3mfd, 50V
C435	22488109	EL, 1mfd, 50V
C436	22349332	CD, 3300pF, 50V, K
C437, 438	22349102	CD, 1000pF, 50V, K
C439, 440	22360328	BL, 0.015mfd, 25V, M
C441, 442	22360331	BL, 0.047mfd, 25V, M
C443, 444	22440271	EL, 0.47mfd, 50V
C445, 446	22349332	CD, 3300pF, 50V, K
C447, 448	22360327	BL, 0.01mfd, 25V, M
C449, 450	22488109	EL, 1mfd, 50V
C451, 452	22483101	EL, 100mfd, 10V
C453, 454	22349221	CD, 220pF, 50V, K
C455	22362220	CD, 22pF, 50V, K
C456	22349222	CD, 2200pF, 50V, K
C457, 458	22440271	EL, 0.47mfd, 50V
C459, 460	22371102	MY, 1000pF, 50V, J
C461	22360484	CD, 0.047mfd, 50V, Z
C462	22349472	CD, 4700pF, 50V, K
C463, 464	22483101	EL, 100mfd, 10V
C465, 466	22488109	EL, 1mfd, 50V
C467, 468	22360326	BL, 6800pF, 50V, M

Symbol No.	Part No.	Description
C469, 470	22349681	CD, 680pF, 50V, K
C471, 472	22485100	EL, 10mfd, 16V
C473, 474	22488109	EL, 1mfd, 50V
C475, 476	22483101	EL, 100mfd, 10V
C477, 478	22371102	MY, 1000pF, 50V, J
C479, 480	22342223	CD, 0.022mfd, 50V, Z
C481, 482	22488109	EL, 1mfd, 50V
C483, 484	22360326	BL, 6800pF, 50V, M
C485, 486	22349681	CD, 680pF, 50V, K
C487, 488	22349471	CD, 470pF, 50V, K
C489, 490	22483470	EL, 47mfd, 10V
C491, 492	22349221	CD, 220pF, 50V, K
C493, 494	22372103	MY, 0.01mfd, 50V, K
C495, 496	22483101	EL, 100mfd, 10V
C497	22349222	CD, 2200pF, 50V, K
C498, 499	22485100	EL, 10mfd, 16V
C500	22349472	CD, 4700pF, 50V, K
C501	22486220	EL, 22mfd, 25V
C502	22349332	CD, 3300pF, 50V, K
C503	22360333	BL, 0.1mfd, 25V, M
C504	22483101	EL, 100mfd, 10V
C505, 506	22488479	EL, 4.7mfd, 50V
C507, 508	22488229	EL, 2.2mfd, 50V
C509, 510	22485100	EL, 10mfd, 16V
C511, 512	22360330	BL, 0.033mfd, 25V, M
C513, 514	22360330	BL, 0.033mfd, 25V, M
C515, 516	22485100	EL, 10mfd, 16V
C517	22342223	CD, 0.022mfd, 50V, Z
C518	22342223	CD, 0.022mfd, 50V, Z
C519	22488478	EL, 0.47mfd, 50V
C520	22483101	EL, 100mfd, 10V
C521	22488478	EL, 0.47mfd, 50V
C522	22482102	EL, 1000mfd, 6.3V
C524	22362101	CD, 100pF, 50V, K
C525	22486101	EL, 100mfd, 25V
C526	22485100	EL, 10mfd, 16V
C527	22483101	EL, 100mfd, 10V
C528	22342223	CD, 0.022mfd, 50V, Z
C529, 530	22349331	CD, 330pF, 50V, K
C531, 532	22488339	EL, 3.3mfd, 50V
C533, 534	22488339	EL, 3.3mfd, 50V
C535	22488229	EL, 2.2mfd, 50V
C701, 709	22321210	PP, 0.1mfd, 50V, K
C702, 711	22372683	MY, 0.068mfd, 50V, K
C703, 712	22372223	MY, 0.022mfd, 50V, K
C704, 713	22483101	EL, 100mfd, 10V
C705, 714	22372473	MY, 0.047mfd, 50V, K
C706, 715	22372103	MY, 0.01mfd, 50V, K
C707	22372473	MY, 0.047mfd, 50V, K
C708, 710	22321057	PP, 0.01mfd, 100V, J
C801, 802	22485100	EL, 10mfd, 16V

Symbol No.	Part No.	Description
C803, 804	22485100	EL, 10mfd, 16V
C805, 806	22362101	CD, 100pF, 50V, K
C807, 808	22321309	PP, 235pF, 100V, G
C809, 810	22321308	PP, 9100pF, 100V, G
C811, 812	22321307	PP, 4700pF, 100V, G
C813, 814	22360333	BL, 0.1mfd, 25V, M
C815, 816	22488478	EL, 0.47mfd, 50V
C817, 818	22362180	CD, 18pF, 50V, K
C819, 820	22485100	EL, 10mfd, 16V
C821, 822	22321306	PP, 1500pF, 100V, G
C823, 824	22349222	CD, 2200pF, 50V, K
C825, 826	22485100	EL, 10mfd, 16V
C827, 828	22349221	CD, 220pF, 50V, K
C829, 830	22362150	CD, 15pF, 50V, K
C831, 832	22485100	EL, 10mfd, 16V
C833, 834	22349152	CD, 1500pF, 50V, K
C835, 836	22482102	EL, 1000mfd, 6.3V
C837, 838	22361609	CD, 6pF, 50V, D
C839	22360484	CD, 0.047mfd, 50V, Z
C901	22372224	MY, 0.22mfd, 50V, K
C902	22372154	MY, 0.15mfd, 50V, K
C903	22440424	EL, 10000mfd, 25V
C904	22485101	EL, 100mfd, 16V
C905	22485102	EL, 1000mfd, 16V
C906	22483101	EL, 100mfd, 10V
C907	22486102	EL, 1000mfd, 25V
C908	22342223	CD, 0.022mfd, 50V, Z
C909	22487330	EL, 33mfd, 35V
C910	22372823	MY, 0.082mfd, 50V, K

RESISTORS

1. Resistors are carbon film 1/6W, ±5% unless otherwise noted. G = ±2%
2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required. Please use the substitutional fixed carbon film resistor of 1/4W, ±5% according to the following list. K = 1000, M =1000000

R001	22584332	3.3K ohm
R002	22584332	3.3K ohm
R003	22625439	50K ohm, Variable
R004	22545102	1K ohm, 1/4W (PRC)
R005	22584103	10K ohm
R006	22545104	100K ohm, 1/4W
R007	22545472	4.7K ohm, 1/4W (PRC)
R008	22545223	22K ohm, 1/4W (PRC)
R009	22545223	22K ohm, 1/4W (PRC)
R010	22545472	4.7K ohm, 1/4W (PRC)
R011	22545682	6.8K ohm, 1/4W (PRC)
R012	22545682	6.8K ohm, 1/4W (PRC)

Symbol No.	Part No.	Description
R101	22545331	330 ohm, 1/4W (PRC)
R102	22545101	100 ohm, 1/4W (PRC)
R103	22545331	330 ohm, 1/4W (PRC)
R104	22584470	47 ohm
R105	22545681	680 ohm, 1/4W (PRC)
R106	22545331	330 ohm, 1/4W (PRC)
R107	22555829	8.2 ohm, 1/4W, Rank–Y
R107	22555479	4.7 ohm, 1/4W, Rank–W
R108	22545182	1.8K ohm, 1/4W (PRC)
R109	22545182	1.8K ohm, 1/4W (PRC)
R110	22584104	100K ohm
R111	22545272	2.7K ohm, 1/4W (PRC)
R112	22545104	100K ohm, 1/4W (PRC)
R113	22545822	8.2K ohm, 1/4W (PRC)
R114	22545122	1.2K ohm, 1/4W (PRC)
R115	22545154	150K ohm, 1/4W (PRC)
R201	22545102	1K ohm, 1/4W (PRC)
R202	22545822	8.2K ohm, 1/4W (PRC)
R203	22658599	10K ohm, Semi-fixed Variable
R204	22545154	150K ohm, 1/4W (PRC)
R205, 206	22584332	3.3K ohm
R207	22545152	1.5K ohm, 1/4W (PRC)
R208	22545221	220 ohm, 1/4W
R301	22584681	680 ohm
R302	22584822	8.2K ohm
R303, 304	22584331	330 ohm
R305, 306	22584100	10 ohm
R307, 308	22584222	2.2K ohm
R309, 310	22584822	8.2K ohm
R311, 312	22584333	33K ohm
R313, 314	22543680	68 ohm, 1/8W
R315, 316	22584102	1K ohm
R317, 318	22584331	330 ohm
R319, 320	22657245	50K ohm, Variable
R321, 322	22584105	1M ohm
R323	22547109	1 ohm, 1/2W
R324	22584472	4.7K ohm
R325	22584102	1K ohm
R401	22545332	3.3K ohm, 1/4W (PRC)
R402	22545103	10K ohm, 1/4W (PRC)
R403	22545224	220K ohm, 1/4W (PRC)
R404	22545472	4.7K ohm, 1/4W (PRC)
R405	22545472	4.7K ohm, 1/4W (PRC)
R406	22545104	100k ohm, 1/4W (PRC)
R407	22545473	47K ohm, 1/4W (PRC)
R408	22545472	4.7K ohm, 1/4W (PRC)
R409	22657247	10K ohm, Variable
R410	22545102	1K ohm, 1/4W (PRC)
R411, 412	22545271	270 ohm, 1/4W (PRC)
R413, 414	22584682	6.8K ohm

Symbol No.	Part No.	Description
R415, 416	22545103	10K ohm, 1/4W (PRC)
R417, 418	22545153	15K ohm, 1/4W (PRC)
R419, 420	22584222	2.2K ohm
R421, 422	22545474	470K ohm, 1/4W (PRC)
R423	22545104	100K ohm, 1/4W (PRC)
R424	22545222	2.2K ohm, 1/4W (PRC)
R427, 428	22584221	220 ohm
R429, 430	22550325	10M ohm, 1/4W
R431, 432	22584564	560K ohm
R433, 434	22584123	12K ohm
R435, 436	22584103	10K ohm
R437, 438	22550325	10M ohm, 1/4W
R439, 440	22550325	10M ohm, 1/4W
R441, 442	22545104	100K ohm, 1/4W (PRC)
R443, 444	22550325	10M ohm, 1/4W
R445, 446	22555122	1.2K ohm, 1/4W
R447, 448	22584153	15K ohm
R449, 450	22584225	2.2M ohm
R451, 452	22545153	15K ohm, 1/4W (PRC)
R453	22545104	100K ohm, 1/4W (PRC)
R454	22545154	150K ohm, 1/4W
R455	22545223	22K ohm, 1/4W (PRC)
R456	22545154	150K ohm, 1/4W
R457	22545472	4.7K ohm, 1/4W (PRC)
R458	22584225	2.2M ohm
R459, 460	22584682	6.8K ohm
R461, 462	22584123	12K ohm
R463, 464	22584273	27K ohm
R465, 466	22584223	22K ohm
R467, 468	22545222	2.2K ohm, 1/4W (PRC)
R469	22545104	100K ohm, 1/4W (PRC)
R470	22545332	3.3K ohm, 1/4W (PRC)
R471, 472	22584153	15K ohm
R473, 474	22584152	1.5K ohm
R475, 476	22584152	1.5K ohm
R477, 478	22657249 ✓	50K ohm, Variable, Treble
R479, 480	22657246 ✓	50K ohm, Variable, Bass
R481	22545102	1K ohm, 1/4W (PRC)
R483, 484	22545103	10K ohm, 1/4W
R485, 486	22545682	6.8K ohm, 1/4W
R489, 490	22657250 ✓	500K ohm, Variable, USL
R491, 492	22584105	1M ohm
R493, 494	22584223	22K ohm
R495, 496	22545153	15K ohm, 1/4W (PRC)
R497, 498	22545153	15K ohm, 1/4W (PRC)
R499, 500	22584103	10K ohm
R501, 502	22545222	2.2K ohm, 1/4W (PRC)
R503	22545104	100K ohm, 1/4W (PRC)
R504	22545222	2.2K ohm, 1/4W (PRC)
R505, 506	22545222	2.2K ohm, 1/4W (PRC)
R507, 508	22584153	15K ohm
R509, 510	22584104	100K ohm
R511, 512	22584474	470K ohm
R513, 514	22545221	220 ohm, 1/4W (PRC)

Symbol No.	Part No.	Description
R515, 516	22584822	8.2K ohm
R517, 518	22555123	12K ohm, 1/4W
R519, 520	22555273	27K ohm, 1/4W
R521, 522	22545474	470K ohm, 1/4W (PRC)
R523, 524	22584225	2.2M ohm
R525, 526	22584223	22K ohm
R527, 528	22584332	3.3K ohm
R529, 530	22584223	22K ohm
R531, 532	22584103	10K ohm
R533, 534	22545104	100K ohm, 1/4W (PRC)
R535, 536	22584123	12K ohm
R537, 538	22584104	100K ohm
R539, 540	22555121	120 ohm, 1/4W
R541, 542	22545222	2.2K ohm, 1/4W (PRC)
R543, 544	22584153	15K ohm
R545, 546	22584104	100K ohm
R547, 548	22584474	470K ohm
R549, 550	22545221	220 ohm, 1/4W (PRC)
R551, 552	22584822	8.2K ohm
R553, 554	22584123	12K ohm
R555, 556	22584273	27K ohm
R557, 558	22545474	470K ohm, 1/4W (PRC)
R559, 560	22584225	2.2M ohm
R561, 562	22584332	3.3K ohm
R563, 564	22550233	24K ohm, 1/4W (PRC)
R565, 566	22545104	100K ohm, 1/4W (PRC)
R567	22545104	100K ohm, 1/4W (PRC)
R568, 569	22545183	18K ohm, 1/4W (PRC)
R570, 571	22545152	1.5K ohm, 1/4W (PRC)
R572	22545152	1.5K ohm, 1/4W (PRC)
R573, 574	22545334	330K ohm, 1/4W (PRC)
R575, 576	22658500	300 ohm, Semi-fixed Variable
R577, 578	22584334	330K ohm
R579, 580	22584682	6.8K ohm
R581, 582	22584562	5.6K ohm
R583, 584	22545103	10K ohm, 1/4W (PRC)
R585	22545104	100K ohm, 1/4W (PRC)
R586	22545273	27K ohm, 1/4W (PRC)
R587	22545104	100K ohm, 1/4W (PRC)
R588	22545104	100K ohm, 1/4W (PRC)
R589	22584183	18K ohm
R590	22545102	1K ohm, 1/4W (PRC)
R591	22545104	100K ohm, 1/4W (PRC)
R592	22545224	220K ohm, 1/4W (PRC)
R593	22584472	4.7K ohm
R594	22545104	250K ohm, 1/4W
R594	22545154	(100K + 150K) (PRC)
R595	22545103	10K ohm, 1/4W (PRC)
R596	22545103	10K ohm, 1/4W
R597	22545332	3.3K ohm, 1/4W (PRC)
R598	22584100	10 ohm
R599	22545223	22K ohm
R600	22545683	68K ohm, 1/4W (PRC)

Symbol No.	Part No.	Description
R601	22545473	47K ohm, 1/4W (PRC)
R602	22545334	330K ohm, 1/4W (PRC)
R603	22545334	330K ohm, 1/4W (PRC)
R604	22540639	3.3 ohm, 1/4W
R605, 606	22545472	4.7K ohm, 1/4W (PRC)
R607, 608	22584103	10K ohm
R609, 610	22657247	10K ohm, Variable
R611, 612	22545473	47K ohm, 1/4W (PRC)
R613, 614	22584473	47K ohm
R615, 616	22555820	82 ohm, 1/4W
R617, 618	22545271	270 ohm, 1/4W (PRC)
R619, 620	22545821	820 ohm, 1/4W (PRC)
R621, 622	22545821	820 ohm, 1/4W (PRC)
R623, 624	22545821	820 ohm, 1/4W (PRC)
R625	22545821	820 ohm, 1/4W (PRC)
R626	22545103	10K ohm, 1/4W (PRC)
R627	22584151	150 ohm
R628	22545334	330K ohm, 1/4W (PRC)
R629	22545683	68K ohm, 1/4W (PRC)
R630	22545223	22K ohm, 1/4W (PRC)
R631	22545104	100K ohm, 1/4W (PRC)
R632	22584105	1M ohm
~~R633, 634~~	~~22657248~~ ✓	~~10K ohm, Variable~~
R635, 636	22658379	2K ohm, Semi-fixed Variable
R637	22545104	100K ohm, 1/4W (PRC)
R638	22584472	4.7K ohm
R639, 640	22550325	10M ohm, 1/4W, K
R641	22545393	39K ohm, 1/4W (PRC)
R642	22545103	10K ohm, 1/4W (PRC)
R643	22545473	47K ohm, 1/4W (PRC)
R644	22545104	100K ohm, 1/4W (PRC)
R645, 646	22545103	10K ohm, 1/4W (PRC)
R647	22545103	10K ohm, 1/4W (PRC)
R648	22540640	22 ohm, 1/4W
R649	22584339	3.3 ohm
R650	22545103	10K ohm, 1/4W (PRC)
R651	22545334	330K ohm, 1/4W (PRC)
R652	22545104	100K ohm, 1/4W (PRC)
R653	22545334	330K ohm, 1/4W (PRC)
R654, 655	22545104	100K ohm, 1/4W (PRC)
R656	22545474	470K ohm, 1/4W (PRC)
R657	22545333	33K ohm, 1/4W (PRC)
R658	22545332	3.3K ohm, 1/4W (PRC)
R659	22545101	100 ohm, 1/4W (PRC)
R660	22545182	1.8K ohm, 1/4W (PRC)
R661	22545271	270 ohm, 1/4W (PRC)
R662	22545104	100K ohm, 1/4W (PRC)
R663	22545392	3.9K ohm, 1/4W (PRC)
R664	22584102	1K ohm
R665	22545103	10K ohm, 1/4W (PRC)
R666	22545122	1.2K ohm, 1/4W (PRC)
R667	22545224	220K ohm, 1/4W (PRC)
R668	22545122	1.2K ohm, 1/4W (PRC)

Symbol No.	Part No.	Description
R669	22545474	470K ohm, 1/4W (PRC)
R670	22545474	470K ohm, 1/4W (PRC)
R671, 672	22545103	10K ohm, 1/4W (PRC)
R673, 674	22545563	56K ohm, 1/4W (PRC)
R675, 676	22545104	100K ohm, 1/4W (PRC)
R677, 678	22545104	100K ohm, 1/4W (PRC)
R679	22545474	470K ohm, 1/4W (PRC)
R680	22555101	100 ohm, 1/4W
R681	22545104	100K ohm, 1/4W (PRC)
R682	22545333	33K ohm, 1/4W (PRC)
R701, 707	22584220	22 ohm
R702, 708	22584560	56 ohm
R703, 709	22584680	68 ohm
R704, 410	22584339	3.3 ohm
R705, 711	22584562	5.6K ohm
R706, 712	22584152	1.5K ohm
R801, 802	22545563	56K ohm, 1/4W (PRC)
R803, 804	22584563	56K ohm
R805, 806	22584392	3.9K ohm
R807, 808	22584332	3.3K ohm
R809, 810	22584562	5.6K ohm
R811, 812	22584684	680K ohm
R813, 814	22550330	32K ohm, 1/4W, G
R815, 816	22550144	33K ohm, 1/4W, G
R817, 818	22550229	3.9K ohm, 1/4W, G
R819, 820	22550235	2K ohm, 1/4W, G
R821, 822	22584392	3.9K ohm
R823, 824	22550330	32K ohm, 1/4W, G
R825, 826	22550325	10M ohm, 1/4W, G
R827, 828	22545104	100K ohm, 1/4W (PRC)
R829, 830	22550325	10M ohm, 1/4W, G
R831, 832	22550323	120K ohm, 1/4W, G
R833, 834	22545221	220 ohm, 1/4W (PRC)
R835, 836	22584104	100K ohm
R837, 838	22545221	220 ohm, 1/4W (PRC)
R839, 840	22540582	1.2K ohm, 1/4W, G
R841, 842	22545221	220 ohm, 1/4W (PRC)
R843, 844	22555475	4.7M ohm, 1/4W
R845, 846	22584104	100K ohm
R847, 848	22540582	1.2K ohm, 1/4W, G
R849, 850	22540581	680 ohm, 1/4W, G
R851, 852	22540583	100K ohm, 1/4W, G
R853, 854	22550329	10K ohm, 1/4W, G
R855, 856	22550136	560 ohm, 1/4W, G
R857, 858	22550329	10K ohm, 1/4W, G
R859, 860	22545332	3.3K ohm, 1/4W (PRC)
R861, 862	22545473	47K ohm, 1/4W (PRC)
R863, 864	22545152	1.5K ohm, 1/4W (PRC)
R866	22545122	1.2K ohm, 1/4W (PRC)
R867, 868	22543181	180 ohm, 1/8W
R869, 870	22545332	3.3K ohm, 1/4W (PRC)
R871, 872	22545682	6.8K ohm, 1/4W (PRC)

Symbol No.	Part No.	Description
R873, 874	22658184	10K ohm, Semi-fixed Resistor
R875, 876	22545682	6.8K ohm, 1/4W (PRC)
R877, 878	22658184	10K ohm, Semi-fixed Resistor
R879, 880	22545103	10K ohm, 1/4W (PRC)
R881	22545223	22K ohm, 1/4W (PRC)
R882	22584225	2.2M ohm
R901, 902	22584472	4.7K ohm
R903	22584183	18K ohm
R904	22543821	820 ohm, 1/8W
R905	22584100	10 ohm
R906	22584151	150 ohm
R907	22555152	1.5K ohm, 1/4W
R908	22584100	10 ohm
R909	22584104	100K ohm
R913	22584332	3.3K ohm
R914	22584332	3.3K ohm
R915	22584333	33K ohm
R917	22543100	10 ohm, 1/8W
R918	22555689	6.8 ohm, 1/4W
R919	22555689	6.8 ohm, 1/4W
R920	22570311	220 ohm, 2W, Oxide Metal Film
R921	22547339	3.3 ohm, 1/2W
R922	22584101	100 ohm
R923	22584331	330 ohm
R924, 926	22584152	1.5K ohm
R925, 927	22584221	220 ohm
R928	22540481	3.9 ohm, 1/8W
R929	22584680	68 ohm
R930	22584560	56 ohm
R931	22584470	47 ohm
R932, 933	22657251	1K ohm, Variable
R934	22545223	22K ohm, 1/4W (PRC)
R935	22545334	330K ohm, 1/4W (PRC)

ACCESSORIES

AC01	22105370	Demonstration Tape
⚠ AC02	22176615	Cord, Power
AC03	22903504	Owner's Manual
AC04	22906359	Pop Label, Left
AC05	22906360	Pop Label, Right
AC06	25857120	Spacer, Speaker Box
AC07	25832696	Foot, Control
AC08	22941301	Poly Bag, Speaker Spacer
AC09	22941375	Poly Bag, Speaker Cord

Symbol No.	Part No.	Description

SERVICE DATA
FILE NO. 113-300
SUPPLEMENT-A

センターファイル
Center File

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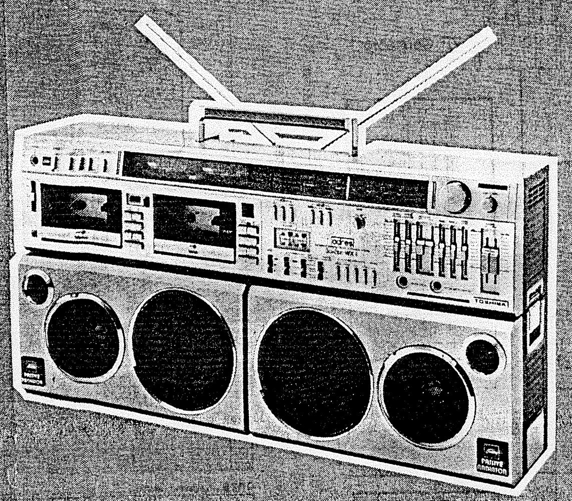
TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-S983(WX-1)



This supplement informs modifications of the schematic diagram due to change of the address ICs (Q803 and Q804). Please use the supplement by referring to the Service Data (File No. 110-300)

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1. DELETED AND ADDED PARTS DUE TO THE CHANGE OF ICS (Q803, Q804) 2
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VF

PRINTED IN JAPAN 22905388 Dec., 1984 Ⓢ

RT-S983
VF (WX-1)

85

1-1 DISUSE PARTS

Symbol No.	Part No.	Description
TRANSISTORS, IC'S AND DIODES		
Q803, 804	B0354510	IC, TA7605AP
Q811, 812	A6317460	Transistor, 2SC1815NEW-GR
D801	A7286500	Diode, 02Z7.5A
CAPACITORS D = ±0.5pF, K = ±10% ABBREVIATIONS: CD = Ceramic Disk, EL = Electrolytic		
C817, 818	22362180	CD, 18pF, 50V, K
C823, 824	22349222	CD, 2200pF, 50V, K
C827, 828	22349221	CD, 220pF, 50V, K
C829, 830	22362150	CD, 15pF, 50V, K
C831, 832	22485100	EL, 10mfd, 16V
C833, 834	22349152	CD, 1500pF, 50V, K
C838	22361609	CD, 6pF, 50V, D
RESISTORS Resistors are carbon film 1/4W, ±5% unless otherwise noted.		
R833, 834	22545221	220 ohm, 1/4W (PRC)
R836	22584104	100K ohm
R837, 838	22545221	220 ohm, 1/4W (PRC)
R839, 840	22540582	1.2K ohm, 1/4W, G
R841, 842	22545221	220 ohm, 1/4W (PRC)
R843, 844	22555475	4.7M ohm, 1/4W
R845, 846	22584104	100K ohm
R847, 848	22540582	1.2K ohm, 1/4W, G
R849, 850	22540581	680 ohm, 1/4W, G
R851, 852	22540583	100K ohm, 1/4W, G
R853, 854	22550329	10K ohm, 1/4W, G
R855, 856	22550136	560 ohm, 1/4W, G
R857, 858	22550329	10K ohm, 1/4W, G
R859, 860	22545332	3.3K ohm, 1/4W (PRC)
R861, 862	22545473	47K ohm, 1/4W (PRC)
R868	22543181	180 ohm, 1/8W
R869, 870	22545332	3.3K ohm, 1/4W (PRC)
R871, 872	22545682	6.8K ohm, 1/4W (PRC)
R873, 874	22658184	10K ohm, Semi-fixed Resistor
R875, 876	22545682	6.8K ohm, 1/4W (PRC)
R877, 878	22658184	10K ohm, Semi-fixed Resistor
R879, 880	22545103	10K ohm, 1/4W (PRC)

1-2 ADITIONAL PARTS

Symbol No.	Part No.	Description
TRANSISTORS, IC'S AND DIODES		
Q1, 2	B0356770	IC, TA7677P
Q3, 4	A6041980	Transistor, 2SK118NEW-O
D1, 2	A7246703	Diode, 1S1555V
D3, 4		
CAPACITORS D = ±0.5pF, K = ±10% ABBREVIATIONS: CD = Ceramic Disk,EL = Electrolytic		
C1, 8	22362101	CD, 100pF, 50V, K
C2, 12	22485101	EL, 100mfd, 16V
C3, 11	22362101	CD, 100pF, 50V, K
C4, 10	22349102	CD, 1000pF, 50V, K
C5, 9	22488479	EL, 4.7mfd, 50V
C6, 7	22349222	CD, 2200pF, 50V, K
C13	22361609	CD, 6pF, 50V, K
RESISTORS Resistors are carbon film 1/4W, ±5% unless otherwise noted.		
R1	22555224	220K ohm
R2, 23	22555104	100K ohm
R3, 25	22555822	8.2K ohm
R4, 26	22555104	100K ohm
R5, 21	22555823	82K ohm
R6, 22	22555224	220K ohm
R7, 19	22547335	3.3M ohm, 1/2W
R8, 20	22555221	220 ohm
R9, 16	22555225	2.2M ohm
R10, 15	22555393	39K ohm
R11, 18	22555333	33K ohm
R12, 14	22555473	47K ohm
R13, 17	22555223	22K ohm
R27, 30	22658764	50K ohm, Semi-fixed Variable
R28, 29	22658761	10K ohm, Semi-fixed Variable

2. ELECTRICAL PARTS LOCATIONS

Q001 FM mode(All voltages are 0V except pin 9 • 2.7V in AM mode)

	1	2	3	4	5	6	7	8	9
FM	3.7V	4.4V	4.4V	4.4V	0V	4.4V	4.3V	0V	3.6V

Q201 FM mode

	1	2	3	4	5	6	7	8	9
FM	3.37V	5.52V	6.9V	6.8V	0V	8.15V	6.25V	3.57V	3.64V

Q439

	1	2	3	4	5	6	7
Tape Ⓑ Play	4.9V	4.9V	4.9V	4.9V	10.3V	10.3V	0V
Tape Ⓐ→Ⓑ REC	4.9V	4.9V	4.9V	4.9V	0V	0V	0V
	8	9	10	11	12	13	14
Tape Ⓑ Play	4.9V	4.9V	4.9V	4.9V	0V	0V	9.9V
Tape Ⓐ→Ⓑ REC	4.9V	4.9V	4.9V	4.9V	9.2V	9.2V	9.9V

Q440 Meter AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.4V	0V	4.4V	4.9V	4.9V	9.9V

Q801 Adres AMP & DC AMP

1	2	3	4	5	6	7	8	9
9.9V	1.4V	4.7V	4.6V	0V	4.9V	4.9V	4.9V	9.9V

Q802 Adres AMP & DC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.9V	0V	4.6V	4.7V	1.4V	9.9V

Q805

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.4V	0V	4.4V	4.9V	4.9V	9.9V

Q002

	E	C	B
ON	0V	0V	0.7V
OFF	0V	0V	0V

Q103 Auto Hight Cut

E	C	B
0V	0V	0.59V

Q101

	1	2	3	4	5	6	7	8
FM	0V	0V	8.34V	0V	3.7V	8.36V	0V	1.2V
AM (SW)	0V	0.19V (0.12V)	8.34V	0V	3.7V	8.3V	0.15V (0.1V)	1.2V
	9	10	11	12	13	14	15	16
FM	1.2V	0.85V	0V	0.85V	0V	7.8V	7.8V	7.2V
AM	1.2V	0V	1.37V	0V	2.0V	8.24V	8.24V	7.2V

Q102

	E	C	B
ON	0V	0V	0.7V
OFF	0V	1.37V	0V

Q104 LED Drive

		E	C	B
LED	ON	0V	0V	0.69V
	OFF	0V	8.1V	0.12V

Q815

	E	C	B
ON	9.7V	9.9V	10.3V
OFF	0V	9.9V	0V

Q806 Voltage Regulator

E	C	B
8.0V	9.9V	8.6V

Q807

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	0.52V	4.8V

Q808

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	0.65V

Q809 ON in Tape Ⓑ Play mode

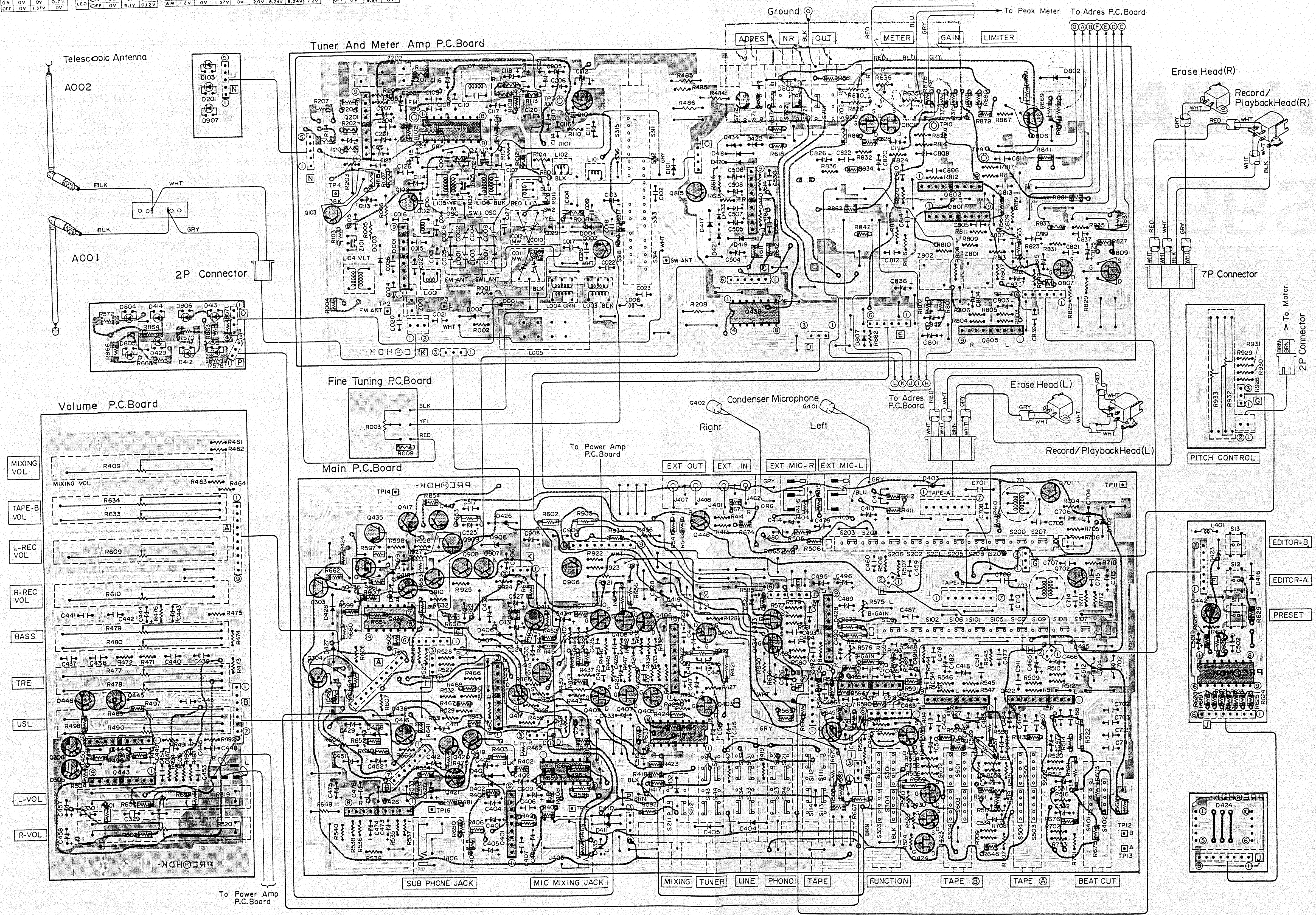
	G	D	S
ON	1.0V	4.8V	4.8V
OFF	0V	4.8V	4.1V

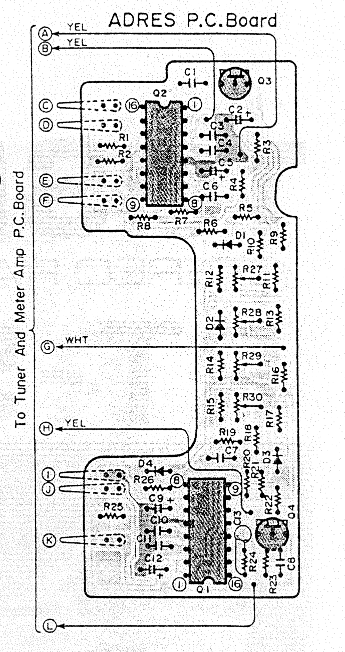
Q810

	G	D	S
ON	1.0V	4.8V	4.8V
OFF	0V	4.1V	4.8V

Q1, 2

1	2	3	4	5	6	7	8
8.4V	1.6V	5.0V	5.6V	0V	5.3V	5.0V	5.8V
9	10	11	12	13	14	15	16
6.4V	5.7V	5.0V	5.0V	10V	5.7V	5.7V	5.0V


Tuner And Meter Amp P.C.Board
Telescopic Antenna
A002
A001
WHT
BLK
GRY
2P Connector
Ground
To Peak Meter
To Adres P.C.Board
ADRES
NR
OUT
METER
GAIN
LIMITER
RED
BLU
GRY
Erase Head(R)
Record/PlaybackHead(R)
7P Connector
To Adres P.C.Board
Fine Tuning P.C.Board
R003
R009
YEL
Volume P.C.Board
MIXING VOL
TAPE-B VOL
L-REC VOL
R-REC VOL
BASS
TRE
USL
L-VOL
R-VOL
To Power Amp P.C.Board
Main P.C.Board
Condenser Microphone
Right
Left
Erase Head(L)
Record/PlaybackHead(L)
EXT OUT
EXT IN
EXT MIC-R
EXT MIC-L
PITCH CONTROL
To Motor
2P Connector
EDITOR-B
EDITOR-A
PRESET
SUB PHONE JACK
MIC MIXING JACK
MIXING
TUNER
LINE
PHONO
TAPE
FUNCTION
TAPE Ⓑ
TAPE Ⓐ
BEAT CUT


ADRES P.C.Board
YEL
To Tuner And Meter Amp P.C.Board
WHT
Q1
Q2
Q3
Q4

Q416 ON except Tape Ⓐ FUNC, REC

	E	C	B
ON	0V	0V	0.6V
OFF	0V	6.8V	0V

Q417

	E	C	B
ON	0V	0V	0.72V
OFF	0V	8.4V	0V
Tape Ⓐ Play	—	0V	—

Q419, 420

	E	C	B
ON	4.9V	4.9V	4.2V
OFF	4.9V	4.9V	7.6V

Q421

	E	C	B
ON	0V	0V	0.7V
OFF	0V	7.7V	0V

Q422 Tape Ⓑ REC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	2.9V	0V	2.9V	4.9V	4.9V	9.9V

Q423, 424, 429, 430
Alternately ON in REC mode

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.1V	4.8V

Q426 Headphone AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.8V	0V	4.8V	4.9V	4.9V	9.9V

Q427 Tape Ⓐ REC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	2.6V	0V	2.7V	4.9V	4.9V	9.9V

Q428 Tape Ⓐ PRE AMP

1	2	3	4	5	6	7	8	9
9.9V	4.8V	4.9V	4.9V	0V	4.9V	4.9V	4.8V	9.9V

Q433

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.7V

Q434

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.7V	4.8V

Q435 Voltage Regulator

E	C	B
5.0V	9.9V	5.7V

Q436

	E	C	B
ON	0.27V	0.27V	0.9V
OFF	0.6V	4.1V	0.7V

Q437

	1	2	3	4	5	6	7	8	9
MQJS	5.2V	2.9V	0.9V	0.9V	0.1V	1.5V	1.0V	0.2V	5.0V
	0.1V	0.1V	0.1V	0.8V	0.1V	1.5V	0.1V	0.2V	5.0V

Q438 MQJS mode

	E	C	B
ON	0V	0V	0.6V
OFF	0V	10.3V	0V

Q441 Depend on MQJS indication

	1	2	3	4	5	6	7	8
	0.1V	1.0V	0.7V	8.8V	4.3V	0V Preset ON 4.7V	4.7V	0.1V
	9	10	11	12	13	14	15	16
H	4.1V	4.0V	4.1V	4.1V	4.1V	4.1V	4.1V	5.0V
L	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	5.0V

Q442 ON in voltage reduction Muting, line voltage 7V.

	E	C	B
ON	0.2V	0V	0.55V
OFF	4.3V	0.1V	0.1V

Q447

	E	C	B
ON	0V	0V	0.6V
OFF	0V	8.0V	0V

Q448 Tape Ⓐ, Play mode

	E	C	B
ON	9.6V	9.8V	8.7V
OFF	1.8V	1.8V	2.3V

Q701, 702

		E	C	B
Play		0V	0V	0V
REC	Metal	0.2V	7.8V	0.5V
	CrO2	0.15V	5.6V	—
	Normal	0.1V	4.2V	—

D424

	1	2	3	4	5	6	7	8	9	10
H	1.9V	1.9V	1.9V	0V	0.1V	1.9V	1.9V	1.9V	1.9V	0.1V
L	0.1V	0.1V	0.1V	0V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V

Q415 Built in ALC ON EXT MIC REC

		1	2	3	4	5	6	7	8
ALC	ON	4.9V	4.9V	4.9V	4.4V	0V	4.2V	4.9V	4.1V
	OFF	4.9V	4.9V	4.9V	4.4V	0V	4.9V	4.9V	5.4V
		9	10	11	12	13	14	15	16
	ON	4.9V	4.9V	5.4V	4.2V	4.4V	9.7V	4.4V	4.9V
	OFF	6.9V	4.9V	0V	4.9V	4.4V	9.8V	4.4V	4.9V

Q445, 446

	E	C	B
ON	4.8V	4.8V	4.3V

Q305, 306

	E	C	B
ON	0V	0V	0.7V
OFF	0V	0V	0V

Q443

1	2	3	4	5	6	7	8	9
9.8V	4.9V	4.9V	4.8V	0V	4.8V	4.9V	4.9V	9.8V

Q444

1	2	3	4	5	6	7	8	9
9.8V	4.9V	4.9V	4.6V	0V	4.6V	4.9V	4.9V	9.8V

Q906

E	C	B
9.9V	14V	10.3V

Q907

E	C	B
4.9V	5.5V	5.5V

Q909

E	C	B
4.9V	4.2V	4.2V

Q908

E	C	B
4.9V	9.1V	5.9V

Q910

E	C	B
4.9V	0.15V	4.2V

Q907, Q908, Q909, Q910: Center Potential Circuit

Q304

	E	C	B
ON	9.8V	9.7V	9.1V
OFF	9.8V	0V	9.2V

Q401

1	2	3	4	5	6	7	8	9
6.9V	5.5V	4.9V	4.2V	4.9V	4.9V	5.5V	9.8V	9.8V

Q402

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.8V	2.6V	0V	2.6V	4.8V	4.9V	9.9V

Q403 Phono, Tape mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	1.4V

Q404 Phono, Tape mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	1.45V	4.9V

Q405

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.7V	4.8V

Q407 Tape Ⓐ REC mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.8V	4.9V

Q406

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.7V

Q408 Tape Ⓐ REC mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	4.8V

Q409 Phono mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	1.1V

Q411

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.8V

Q410 Phono mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	0.7V	4.9V

Q412

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.8V

Q413 ALC

E	C	B
0V	5.7V	0.65V

Q414 Mixing AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.9V	0V	4.9V	4.9V	4.9V	4.9V

RT-S983 RT-S983

3. SCHEMATIC DIAGRAM

Q1, 2

1	2	3	4	5	6	7	8
8.4V	1.6V	5.0V	5.6V	0V	5.3V	5.0V	5.8V
9	10	11	12	13	14	15	16
5.4V	5.7V	5.0V	5.0V	0V	5.7V	5.7V	5.0V

Q001 FM mode(All voltages are 0V except pin 9 • 2.7V in AM mode)

	1	2	3	4	5	6	7	8	9
FM	3.7V	4.4V	4.4V	4.4V	0V	4.4V	4.3V	0V	3.6V

Q002

	E	C	B
ON	0V	0V	0.7V
OFF	0V	0V	0V

Q101

	1	2	3	4	5	6	7	8
FM	0V	0V	8.34V	0V	3.7V	8.36V	0V	1.2V
AM (SW)	0V	0.19V (0.12V)	8.34V	0V	3.7V	8.3V	0.15V (0.1V)	1.2V
	9	10	11	12	13	14	15	16
FM	1.2V	0.85V	0V	0.85V	0V	7.8V	7.8V	7.2V
AM	1.2V	0V	1.37V	0V	2.0V	8.24V	8.24V	7.2V

Q102

	E	C	B
ON	0V	0V	0.7V
OFF	0V	1.37V	0V

Q103 Auto Hight Cut

E	C	B
0V	0V	0.59V

Q104 LED Drive

		E	C	B
LED	ON	0V	0V	0.69V
	OFF	0V	8.1V	0.12V

Q201 FM mode

	1	2	3	4	5	6	7	8	9
FM	3.37V	5.52V	6.9V	6.8V	0V	8.15V	6.25V	3.57V	3.64V

Q301, 302

1	2	3	4	5	6
1.3V	1.4V	3.7V	0V	1.4V	1.3V
7	8	9	10	11	12
0V	7.5V	14V	15V	14V	7.6V

Q304

	E	C	B
ON	9.8V	9.7V	9.1V
OFF	9.8V	0V	9.2V

Q305, 306

	E	C	B
ON	0V	0V	0.7V
OFF	0V	0V	0V

Q401

1	2	3	4	5	6	7	8	9
6.9V	5.5V	4.9V	4.2V	4.9V	4.9V	5.5V	9.8V	9.8V

Q402

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.8V	2.6V	0V	2.6V	4.8V	4.9V	9.9V

Q403 Phono, Tape mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	1.4V

Q404 Phono, Tape mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	1.45V	4.9V

Q405

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.7V	4.8V

Q406

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.7V

Q407 Tape Ⓐ REC mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.8V	4.9V

Q408 Tape Ⓐ REC mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	4.8V

Q409 Phono mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	4.9V	1.1V

Q410 Phono mode

	G	D	S
ON	1.5V	4.9V	4.9V
OFF	0V	0.7V	4.9V

Q411

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.8V

Q412

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.8V

Q413 ALC

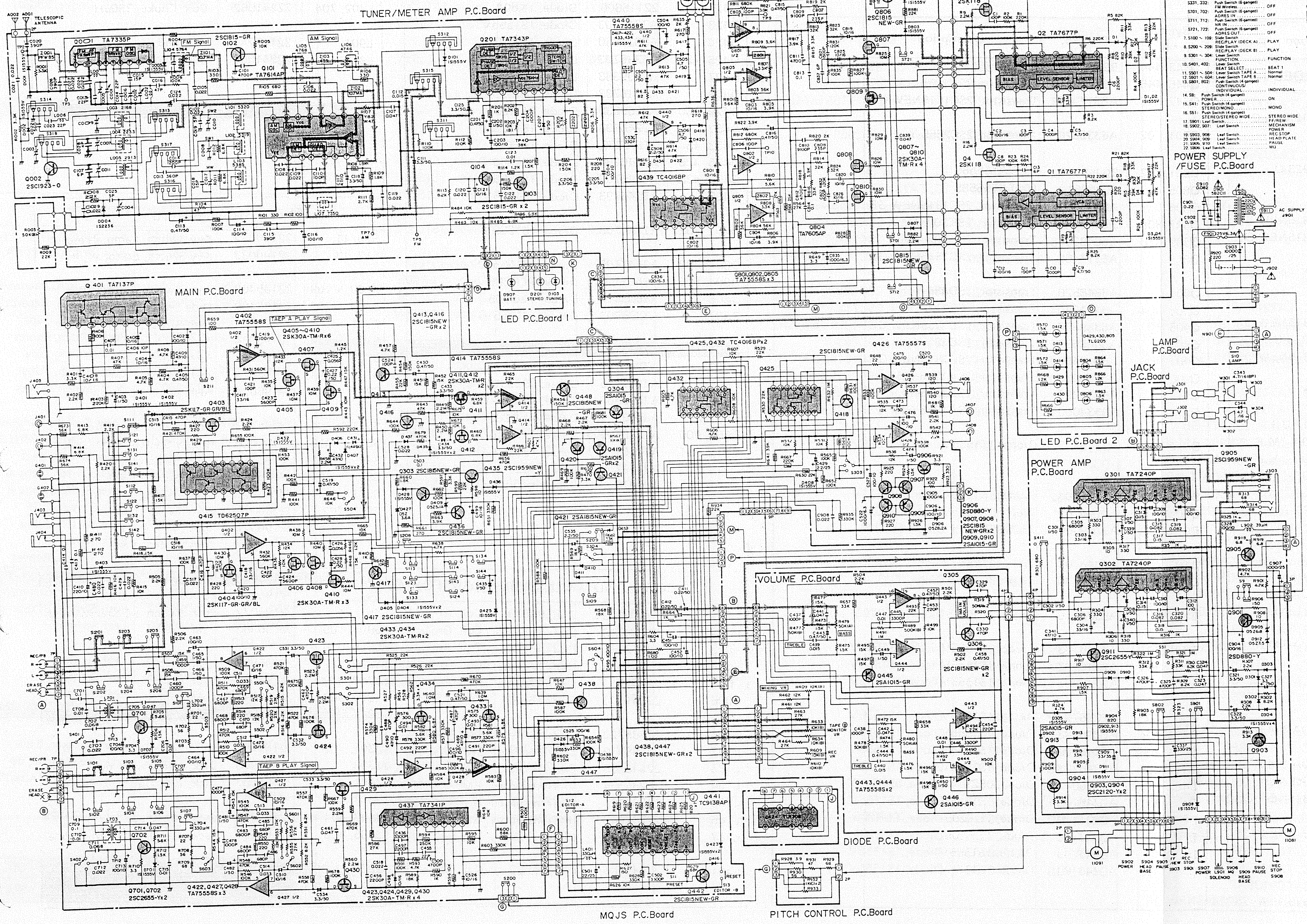
E	C	B
0V	5.7V	0.65V

Q414 Mixing AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.9V	0V	4.9V	4.9V	4.9V	4.9V

Q416 ON except Tape Ⓐ FUNC, REC

	E	C	B
ON	0V	0V	0.6V
OFF	0V	6.8V	0V



Note

Position:

1. S10: Key Switch, Dial Light .... OFF
2. S11: Key Switch, Preset .... OFF
3. S12: Key Switch, Editor A .... OFF
4. S13: Key Switch, Editor B .... OFF
5. S111 ~ 114: Push Switch (5 ganged) TAPE A .... TAPE
   S121 ~ 124: Push Switch (5 ganged) PHONO .... OFF
   S131 ~ 134: Push Switch (5-ganged) AUX .... OFF
   S141 ~ 144: Push Switch (5-ganged) RADIO .... OFF
   S211: Push Switch (5-ganged) MIXING .... OFF
6. S311, 312: Push Switch (6-ganged) FM .... OFF
   S321, 322: Push Switch (6-ganged) AM .... AM
   S331, 332: Push Switch (6-ganged) FM Wireless .... OFF
   S701, 702: Push Switch (6-ganged) ADRES IN .... OFF
   S711, 712: Push Switch (6-ganted) NR IN .... OFF
   S721, 722: Push Switch (6-ganged) ADRES OUT .... OFF
7. S100 ~ 109: Slide Switch REC/PLAY (DECK A) .... PLAY
8. S200 ~ 209: Slide Switch REC/PLAY (DECK B) .... PLAY
9. S301 ~ 304: Lever Switch FUNCTION .... FUNCTION
10. S401, 402: Lever Switch BEAT SELECT .... BEAT 1
11. S501 ~ 504: Lever Switch TAPE A .... Normal
12. S601 ~ 604: Lever Switch TAPE B .... Normal
13. S801, 802: Push Switch (4-ganged) CONTINUOUS/INDIVIDUAL .... INDIVIDUAL
14. S9: Push Switch (4-ganged) POWER .... ON
15. S41: Push Switch (4-ganged) STEREO/MONO .... MONO
16. S51: Push Switch (4-ganged) STEREO/STEREO WIDE .... STEREO WIDE
17. S901: Leaf Switch .... FF/REW
18. S902, 907: Leaf Switch .... MECHANISM POWER
19. S903, 908: Leaf Switch .... REC STOP
20. S904, 909: Leaf Switch .... HEAD PLATE
21. S905, 910: Leaf Switch .... PAUSE
22. S906: Leaf Switch .... MQ

Q415 Built in ALC ON EXT MIC REC

		1	2	3	4	5	6	7	8
ALC	ON	4.9V	4.9V	4.9V	4.4V	0V	4.2V	4.9V	4.1V
	OFF	4.9V	4.9V	4.9V	4.4V	0V	4.9V	4.9V	5.4V
		9	10	11	12	13	14	15	16
	ON	4.9V	4.9V	5.4V	4.2V	4.4V	9.7V	4.4V	4.9V
	OFF	6.9V	4.9V	0V	4.9V	4.4V	9.8V	4.4V	4.9V

Q417

	E	C	B
ON	0V	0V	0.72V
OFF	0V	8.4V	0V
Tape Ⓐ Play	—	0V	—

Q419, 420

	E	C	B
ON	4.9V	4.9V	4.2V
OFF	4.9V	4.9V	7.6V

Q421

	E	C	B
ON	0V	0V	0.7V
OFF	0V	7.7V	0V

Q422 Tape Ⓑ REC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	2.9V	0V	2.9V	4.9V	4.9V	9.9V

Q423, 424, 429, 430
Alternately ON in REC mode

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.1V	4.8V

Q426 Headphone AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.8V	0V	4.8V	4.9V	4.9V	9.9V

Q427 Tape Ⓐ REC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	2.6V	0V	2.7V	4.9V	4.9V	9.9V

Q428 Tape Ⓐ PRE AMP

1	2	3	4	5	6	7	8	9
9.9V	4.8V	4.9V	4.9V	0V	4.9V	4.9V	4.8V	9.9V

Q433

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	4.7V

Q434

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.7V	4.8V

Q435 Voltage Regulator

E	C	B
5.0V	9.9V	5.7V

Q436

	E	C	B
ON	0.27V	0.27V	0.9V
OFF	0.6V	4.1V	0.7V

Q437

	1	2	3	4	5	6	7	8	9
MQJS	5.2V	2.9V	0.9V	0.9V	0.1V	1.5V	1.0V	0.2V	5.0V
	0.1V	0.1V	0.1V	0.8V	0.1V	1.5V	0.1V	0.2V	5.0V

Q438 MQJS mode

	E	C	B
ON	0V	0V	0.6V
OFF	0V	10.3V	0V

Q439

	1	2	3	4	5	6	7
Tape Ⓑ Play	4.9V	4.9V	4.9V	4.9V	10.3V	10.3V	0V
Tape Ⓐ→Ⓑ REC	4.9V	4.9V	4.9V	4.9V	0V	0V	0V
	8	9	10	11	12	13	14
Tape Ⓑ Play	4.9V	4.9V	4.9V	4.9V	0V	0V	9.9V
Tape Ⓐ→Ⓑ REC	4.9V	4.9V	4.9V	4.9V	9.2V	9.2V	9.9V

Q440 Meter AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.4V	0V	4.4V	4.9V	4.9V	9.9V

Q441 Depend on MQJS Indication

	1	2	3	4	5	6	7	8
	0.1V	1.0V	0.7V	8.8V	4.3V	0V Preset ON 4.7V	4.7V	0.1V
	9	10	11	12	13	14	15	16
H	4.1V	4.0V	4.1V	4.1V	4.1V	4.1V	4.1V	5.0V
L	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V	5.0V

Q442 ON in voltage reduction
Muting, line voltage 7V.

	E	C	B
ON	0.2V	0V	0.55V
OFF	4.3V	0.1V	0.1V

Q443

1	2	3	4	5	6	7	8	9
9.8V	4.9V	4.9V	4.8V	0V	4.8V	4.9V	4.9V	9.8V

Q444

1	2	3	4	5	6	7	8	9
9.8V	4.9V	4.9V	4.6V	0V	4.6V	4.9V	4.9V	9.8V

Q445, 446

	E	C	B
ON	4.8V	4.8V	4.3V

Q447

	E	C	B
ON	0V	0V	0.6V
OFF	0V	8.0V	0V

Q448 Tape Ⓐ, Play mode

	E	C	B
ON	9.6V	9.8V	8.7V
OFF	1.8V	1.8V	2.3V

Q701, 702

		E	C	B
Play		0V	0V	0V
REC	Metal	0.2V	7.8V	0.5V
	CrO₂	0.15V	5.6V	—
	Normal	0.1V	4.2V	—

Q801 Adres AMP & DC AMP

1	2	3	4	5	6	7	8	9
9.9V	1.4V	4.7V	4.6V	0V	4.9V	4.9V	4.9V	9.9V

Q802 Adres AMP & DC AMP

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.9V	0V	4.6V	4.7V	1.4V	9.9V

Q805

1	2	3	4	5	6	7	8	9
9.9V	4.9V	4.9V	4.4V	0V	4.4V	4.9V	4.9V	9.9V

Q806 Voltage Regulator

E	C	B
8.0V	9.9V	8.6V

Q807

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	0.52V	4.8V

Q808

	G	D	S
ON	1.5V	4.8V	4.8V
OFF	0V	4.8V	0.65V

Q809 ON in Tape Ⓑ Play mode

	G	D	S
ON	1.0V	4.8V	4.8V
OFF	0V	4.8V	4.1V

Q810

	G	D	S
ON	1.0V	4.8V	4.8V
OFF	0V	4.1V	4.8V

Q815

	E	C	B
ON	9.7V	9.9V	10.3V
OFF	0V	9.9V	0V

Q901 Voltage Regulator

E	C	B
14V	15V	14.35V

Q903 Mecha Ⓑ Drive

	E	C	B
ON	0V	0V	0.7V
OFF	0V	13.5V	0V

Q904 Mecha Ⓐ Drive

	E	C	B
ON	0V	0V	0.7V
OFF	0V	13.5V	0V

Q905 ON in AC mode

	E	C	B
ON	0V	0.1V	0.75V
OFF	0V	13.5V	0V

Q906

E	C	B
9.9V	14V	10.3V

Center Potential Circuit:

Q907

E	C	B
4.9V	5.5V	5.5V

Q908

E	C	B
4.9V	9.1V	5.9V

Q909

E	C	B
4.9V	4.2V	4.2V

Q910

E	C	B
4.9V	0.15V	4.2V

Q911 ON during Plunger Being Puller

	E	C	B
ON	—	—	—
OFF	0V	14.5V	0.15V

Q913

	E	C	B
ON	15.0V	14.5V	14.3V
OFF	14.7V	0V	15.0V

D424

	1	2	3	4	5	6	7	8	9	10
H	1.9V	1.9V	1.9V	0V	0.1V	1.9V	1.9V	1.9V	1.9V	0.1V
L	0.1V	0.1V	0.1V	0V	0.1V	0.1V	0.1V	0.1V	0.1V	0.1V

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

4-1. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with oval in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TRANSISTORS. IC'S AND DIODES		
Q1, 2	B0356770	IC, TA7677P
Q3, 4	A6041980	Transistor, 2SK118NEW-O
Q001	B0325270	IC, TA7335P
Q002	A6319020	Transistor, 2SC1923-O
Q101	B0355431	IC, TA7614AP-Y
Q102	A6317460	Transistor, 2SC1815NEW-GR
Q103. 104	A6317460	Transistor, 2SC1815NEW-GR
Q201	B0325350	IC, TA7343P
Q301, 302	B0320126	IC, TA7240AP
Q303	A6317460	Transistor, 2SC1815NEW-GR
Q304	A6534060	Transistor, 2SA1015-GR
Q305, 306	A6317460	Transistor, 2SC1815NEW-GR
Q401	B0312570	IC, TA7137P-STY
Q402	B0350510	IC, TA75558S
Q403, 404	A6041860	Transistor, 2SK117-GR
Q405, 406	A6048310	Transistor, 2SK30A-TM.R
Q407, 408	A6048310	Transistor, 2SK30A-TM.R
Q409, 410	A6048310	Transistor, 2SK30A-TM.R
Q411, 412	A6048310	Transistor, 2SK30A-TM.R
Q413	A6317460	Transistor, 2SC1815NEW-GR
Q414	B0350510	IC, TA75558S
Q415	B0275035	IC, TD62507P
Q416, 417	A6317460	Transistor, 2SC1815NEW-GR
Q418	A6317460	Transistor, 2SC1815NEW-GR
Q419, 420	A6534060	Transistor, 2SA1015-GR
Q421	A6317460	Transistor, 2SC1815NEW-GR
Q422	B0350510	IC, TA75558S
Q423, 424	A6048310	Transistor, 2SK30A-TM.R
Q425	B0470162	IC, TC4016BP
Q426	B0350410	IC, TA75557S
Q427	B0350510	IC, TA75558S
Q428	B0350510	IC, TA75558S
Q429, 430	A6048310	Transistor, 2SK30A-TM.R
Q432	B0470162	IC, TC4016BP
Q433, 434	A6048310	Transistor, 2SK30A-TM.R
Q435	A6319300	Transistor, 2SC1959NEW-Y
Q436	A6317460	Transistor, 2SC1815NEW-GR
Q437	B0325320	IC, TA7341P
Q438	A6317460	Transistor, 2SC1815NEW-GR
Q439	B0470162	IC, TC4016BP
Q440	B0350510	IC, TA75558S
Q441	B0411385	IC, TC9138AP
Q442	A6317460	Transistor, 2SC1815NEW-GR
Q443, 444	B0350510	IC, TA75558S
Q445, 446	A6534060	Transistor, 2SA1015-GR
Q447, 448	A6317460	Transistor, 2SC1815NEW-GR
Q701, 702	A6333320	Transistor, 2SC2655-Y
Q801, 802	B0350510	IC, TA75558S
Q805	B0350510	IC, TA75558S
Q806	A6317460	Transistor, 2SC1815NEW-GR
Q807, 808	A6048310	Transistor, 2SK30A-TM.R
Q809, 810	A6048310	Transistor, 2SK30A-TM.R
Q815	A6317460	Transistor, 2SC1815NEW-GR
Q901	A6848520	Transistor, 2SD880-Y
Q903, 904	A6321240	Transistor, 2SC2120-Y
Q905	A6319300	Transistor, 2SC1959NEW-GR
Q906	A6848520	Transistor, 2SD880-Y
Q907, 908	A6317460	Transistor, 2SC1815NEW-GR
Q909, 910	A6534060	Transistor, 2SA1015-GR
Q911	A6333320	Transistor, 2SC2655-Y
Q913	A6534060	Transistor, 2SA1015-GR
D1, 2 D3,4	A7246703	Diode, 1S1555V
D001, 002	A7246703	Diode, 1S1555V
D003	A7246703	Diode, 1S1555V
D004	A7289000	Diode, 1S2236
D101	A7246703	Diode, 1S1555V
D103	A8606630	Diode, TLG205
D201	A8603110	Diode, TLR205
D301, 302	A7246703	Diode, 1S1555V
D303, 304	A7246703	Diode, 1S1555V
D305	A7246703	Diode, 1S1555V
D401, 402	A7246703	Diode, 1S1555V
D403, 404	A7246703	Diode, 1S1555V
D405, 406	A7246703	Diode, 1S1555V
D407, 408	A7246703	Diode, 1S1555V
D409	A7110041	Diode, 05Z5.1-Y
D410, 411	A7246703	Diode, 1S1555V
D412, 413	A8603110	Diode, TLR205
D414	A8603110	Diode, TLR205
D416	A7246703	Diode, 1S1555V
D417, 418	A7246703	Diode, 1S1555V

Symbol No.	Part No.	Description
D419, 420	A7246703	Diode, 1S1555V
D421, 422	22115808	Diode, 1K60A
D423	A7246703	Diode, 1S1555V
D424	A8620350	Diode, TLR308
D425, 426	A7246703	Diode, 1S1555V
D427	A7109363	Diode, 05Z3.6-Y
D428	A7246703	Diode, 1S1555V
D429, 430	A8606630	Diode, TLG205
D432	A7246703	Diode, 1S1555V
D433, 434	22115808	Diode, 1K60A
D435, 436	A7246703	Diode, 1S1555V
D437, 438	A7246703	Diode, 1S1555V
D439	A7246703	Diode, 1S1555V
D701, 702	A7246703	Diode, 1S1555V
D802, 803	A7246703	Diode, 1S1555V
D804, 806	A8603110	Diode, TLR205
D805	A8606630	Diode, TLG205
D807	A7246703	Diode, 1S1555V
⚠ D901	A7683100	Diode, 5B2C11
D902	A7246703	Diode, 1S1555V
D905	A7110115	Diode, 05Z6.8-Y
D906	A7110208	Diode, 05Z8.2-Y
D907	A8603110	Diode, TLR205
D908, 909	A7246703	Diode, 1S1555V
D910, 911	A7246703	Diode, 1S1555V
D912	A7110160	Diode, 05Z7.5-Y
D913	A7246703	Diode, 1S1555V
COILS AND TRANSFORMERS		
L001	22294003	Coil, RF, FM
L002	22294016	Coil, Oscillator, FM
L003	22282168	Coil, Antenna, SW2
L004	22282233	Coil, Antenna, SW1
L005	22242913	Coil, Antenna, MW
L006	22291103	Coil, 1.5μH
L101	22285320	Coil, Oscillator, SW2
L102	22285319	Coil, Oscillator, SW1
L103	22245385	Coil, Oscillator, MW
L104	22265764	IF Transformer, FM
L105	22264768	IF Transformer, AM
L106	22264746	IF Transformer, AM
L107	22267350	IF Transformer, FM
L401	22241062	Coil, Choke, 330μH
L701, 703	22235019	Coil, Oscillator, Tape
L702, 704	22241062	Coil, Choke, 330μH
L901	22147241	Solenoid
L902	22241063	Coil, Choke, 39μH
⚠ T901	22224187	Transformer, Power
ELECTRICAL PARTS		
S10, 11	22196033	Key Switch, Lamp, Preset
S12, 13	22196033	Key Switch, Editor A, B
S100 ∿ 109	22195409	Slide Switch, Record/P.B.
S200 ∿ 209	22195409	Slide Switch, Record/P.B.
S111 ∿ 114,	22196024	Push Switch, Tape
S121 ∿ 124,	22196024	Push Switch, Phono
S131 ∿ 134,	22196024	Push Switch, Line
S141 ∿ 144,	22196024	Push Switch, Tuner
S211	22196024	Push Switch Mixing
S301 ∿ 304	22195420	Lever Switch, Function
S311 ∿ 318	22196026	Rotary Switch, Band Select
S401 ∿ 402	22195449	Lever Switch, Beat
S501 ∿ 504	22195420	Lever Switch, Tape A
S601 ∿ 604	22195420	Lever Switch, Tape B
S701, 702,	22196027	Push Switch, OFF
S711, 712,	22196027	Push Switch, Adres
S721, 722	22196027	Push Switch, NR
S801, 802,	22196022	Push Switch, Repeat
⚠ S9,	22196022	Push Switch, Power
S41,	22196022	Push Switch, Stereo/Mono
S51	22196022	Push Switch, ST/Stereo Wide
S901, 905, S906, 910	22195983	Leaf Switch
S902, 907	22195885	Leaf Switch
S903, 908	22196068	Leaf Switch
S904, 909	22196087	Leaf Switch
⚠ S911	22195989	Rotary Switch, Volt Select
J301, 302	22163785	Jack, Speaker, 3.5φ
J303	22163908	Jack, Headphone, 6φ
J401, 402, J407, 408	22163887	Jack, Line Out, Aux/Pnono
J403, 404	22163865	Jack, Mic, 3.5φ
J405, 406	22163907	Jack, Mic Miximg, Sub Phone
⚠ J901	22167876	Socket, AC

Symbol No.	Part No.	Description
Z001 No.1563	22153121	Filter, RF, FM
Z101, 102	22153122 ~~22153079~~	Filter, Ceramic, 10.7 MHz
Z103	22153070	Filter, Ceramic, 455 kHz
Z201, 202	22153078	Filter, MPX
Z801, 802	22153186	Filter
G401, 402	22154212	Microphone Unit
W301, 302	22152444	Speaker, 12 cm
W303, 304	22152412	Speaker, 4 cm
A001, 002	22124700	Rod Antenna
⚠ F901	22144457	Fuse, 125V, 6.3A
N401, 402	22104578	Meter
N901	22113568	Lamp, 12V, 110mA
EP01	22113577	Meter Lamp, 6.3V, 110mA
EP02	22165047	Holder, Fuse

CAPACITORS

D = ±0.5pF, G = ±2%, J = ±5%, K = ±10%, M = ±20%,
Z = −20 + 80%
ABBREVIATIONS: CD = Ceramic Disk, MY = Mylar
PP = Polypropylene, EL = Electrolytic,
BL = Barrier Layer

Symbol No.	Part No.	Description
C1, 8	22362101	CD, 100pF, 50V, K
C2, 12	22485101	EL, 100mfd, 16V
C3, 11	22362101	CD, 100pF, 50V, K
C4, 10	22349102	CD, 1000pF, 50V, K
C5, 9	22488479	EL, 4.7mfd, 50V
C6, 7	22349222	CD, 2200pF, 50V, K
C13	22361609	CD, 6pF, 50V, D
C001, 002, C003, 004, C005, 006, C007, 008	22308426	Variable Capacitor
C009, 010, C011, 012	22309183	Trimmer
C013	22361220	CD, 22pF, 50V, J
C014	22360134	CD, 22pF, 50V, J
C015	22360132	CD, 15pF, 50V, J
C016	22362470	CD, 47pF, 50V, K
C017	22361609	CD, 6pF, 50V, D
C018	22262150	CD, 15pF, 50V, K
C019	22361509	CD, 5pF, 50V, D
C020	22349391	CD, 390pF, 50V, K
C021	22342223	CD, 0.022mfd, 50V, Z
C022	22362560	CD, 56pF, 50V, K

Symbol No.	Part No.	Description
C023	22360134	CD, 22pF, 50V, J
C024	22342223	CD, 0.022mfd, 50V, Z
C025	22361509	CD, 5pF, 50V, D
C026	22349391	CD, 390pF, 50V, K
C027	22342223	CD, 0.022mfd, 50V, Z
C028	22361409	CD, 4pF, 50V, D
C029	22342223	CD, 0.022mfd, 50V, Z
C101	22349472	CD, 4700pF, 50V, K
C102	22342223	CD, 0.022mfd, 50V, Z
C103	22321050	PP, 360pF, 50V, J
C104	22321058	PP, 1200pF, 50V, J
C105	22342223	CD, 0.022mfd, 50V, Z
C106	22342223	CD, 0.022mfd, 50V, Z
C107	22342473	CD, 0.047mfd, 50V, Z
C108	22360329	BL, 0.022mfd, 25V, M
C109	22342223	CD, 0.022mfd, 50V, Z
C110	22362101	CD, 100pF, 50V, K
C111	22488339	EL, 3.3mfd, 50V
C112	22360328	BL, 0.015mfd, 25V
C113	22488478	EL, 0.47mfd, 50V
C114	22483101	EL, 100mfd, 10V
C115	22349391	CD, 390pF, 50V, K
C116	22483101	EL, 100mfd, 10V
C117	22483470	EL, 47mfd, 10V
C118	22488339	EL, 3.3mfd, 50V
C119	22342223	CD, 0.022mfd, 50V, Z
C120	22342223	CD, 0.022mfd, 50V, Z
C121	22485100	EL, 10mfd, 16V
C122	22342223	CD, 0.022mfd, 50V, Z
C123	22360327	BL, 0.01mfd, 25V, M
C124	22342223	CD, 0.022mfd, 50V, Z
C125	22488339	EL, 3.3mfd, 50V
C127	22342223	CD, 0.022mfd, 50V, Z
C201	22488478	EL, 0.47mfd, 50V
C202	22488109	EL, 1mfd, 50V
C203	22483101	EL, 100mfd, 10V
C204	22321057	PP, 1000pF, 50V, J
C205, 206	22488339	EL, 3.3mfd, 50V
C207	22488109	EL, 1mfd, 50V
C301, 302	22488109	EL, 1mfd, 50V
C303, 304	22485330	EL, 33mfd, 16V
C305, 306	22360326	BL, 6800pF, 50V, M
C307, 308	22488109	EL, 1mfd, 50V
C309, 310	22483101	EL, 100mfd, 10V
C311, 312	22483101	EL, 100mfd, 10V
C313, 314	22373154	MY, 0.15mfd, 50V, M
C315, 316	22373823	MY, 0.082mfd, 50V, M
C317, 318	22373154	MY, 0.15mfd, 50V, M
C319, 320	22373823	MY, 0.082mfd, 50V, M
C321, 322	22488339	EL, 3.3mfd, 50V
C323, 324	22360331	BL, 0.047mfd, 25V, M

Symbol No.	Part No.	Description
C325, 326	22349472	CD, 4700pF, 50V, K
C327	22488339	EL, 3.3mfd, 50V
C328	22483101	EL, 100mfd, 10V
C329, 330	22349471	CD, 470pF, 50V, K
C339, 340	22485330	EL, 33mfd, 16V
C341	22483470	EL, 47mfd, 10V
C343, 344	22475479	EL, 4.7mfd, 16V, BP
C401	22485100	EL, 10mfd, 16V
C402	22483101	EL, 100mfd, 10V
C403	22488109	EL, 1mfd, 50V
C404	22485100	EL, 10mfd, 16V
C405	22488478	EL, 0.47mfd, 50V
C406	22361100	CD, 10pF, 50V, D
C407	22349103	CD, 0.01mfd, 50V, K
C408	22485100	EL, 10mfd, 16V
C409	22483470	EL, 47mfd, 10V
C410	22483221	EL, 220mfd, 10V
C411, 412	22488228	EL, 0.22mfd, 50V
C413, 414	22360333	BL, 0.1mfd, 25V, M
C415, 416	22349471	CD, 470pF, 50V, K
C417, 418	22485330	EL, 33mfd, 16V
C419, 420	22483101	EL, 100mfd, 10V
C421, 422	22362101	CD, 100pF, 50V, K
C423, 424	22372562	MY, 5600pF, 50V, K
C425, 426	22372563	MY, 0.056mfd, 50V, K
C427, 428	22488228	EL, 0.22mfd, 50V
C429	22486220	EL, 22mfd, 25V
C430	22488478	EL, 0.47mfd, 50V
C431	22488478	EL, 0.47mfd, 50V
C432	22483470	EL, 47mfd, 10V
C433, 434	22488339	EL, 3.3mfd, 50V
C345	22488109	EL, 1mfd, 50V
C436	22349332	CD, 3300pF, 50V, K
C437, 438	22349102	CD, 1000pF, 50V, K
C439, 440	22360328	BL, 0.015mfd, 25V, M
C441, 442	22360331	BL, 0.047mfd, 25V, M
C443, 444	22440271	EL, 0.47mfd, 50V
C445, 446	22349332	CD, 3300pF, 50V, K
C447, 448	22360327	BL, 0.01mfd, 25V, M
C449, 450	22488109	EL, 1mfd, 50V
C451, 452	22483101	EL, 100mfd, 10V
C453, 454	22349221	CD, 220pF, 50V, K
C455	22362220	CD, 22pF, 50V, K
C456	22349222	CD, 2200pF, 50V, K
C457, 458	22440271	EL, 0.47mfd, 50V
C459, 460	22371102	MY, 1000pF, 50V, J
C461	22360484	CD, 0.047mfd, 50V, Z
C462	22349472	CD, 4700pF, 50V, K
C463, 464	22483101	EL, 100mfd, 10V
C465, 466	22488109	EL, 1mfd, 50V
C467, 468	22360326	BL, 6800pF, 50V, M
C469, 470	22349681	CD, 680pF, 50V, K

Symbol No.	Part No.	Description
C471, 472	22485100	EL, 10mfd, 16V
C473, 474	22488109	EL, 1mfd, 50V
C475, 476	22483101	EL, 100mfd, 10V
C477, 478	22371102	MY, 1000pF, 50V, J
C479, 480	22342223	CD, 0.022mfd, 50V, Z
C481, 482	22488109	EL, 1mfd, 50V
C483, 484	22360326	BL, 6800pF, 50V, M
C485, 486	22349681	CD, 680pF, 50V, K
C487, 488	22349471	CD, 470pF, 50V, K
C489, 490	22483470	EL, 47mfd, 10V
C491, 492	22349221	CD, 220pF, 50V, K
C493, 494	22372103	MY, 0.01mfd, 50V, K
C495, 496	22483101	EL, 100mfd, 10V
C497	22349222	CD, 2200pF, 50V, K
C498, 499	22485100	EL, 10mfd, 16V
C500	22349472	CD, 4700pF, 50V, K
C501	22486220	EL, 22mfd, 25V
C502	22349332	CD, 3300pF, 50V, K
C503	22360333	BL, 0.1mfd, 25V, M
C504	22483101	EL, 100mfd, 10V
C505, 506	22488479	EL, 4.7mfd, 50V
C507, 508	22488229	EL, 2.2mfd, 50V
C509, 510	22485100	EL, 10mfd, 16V
C511, 512	22360330	BL, 0.033mfd, 25V, M
C513, 514	22360330	BL, 0.033mfd, 25V, M
C515, 516	22485100	EL, 10mfd, 16V
C517	22342223	CD, 0.022mfd, 50V, Z
C518	22342223	CD, 0.022mfd, 50V, Z
C519	22488478	EL, 0.47mfd, 50V
C520	22483101	EL, 100mfd, 10V
C521	22488478	EL, 0.47mfd, 50V
C522	22482102	EL, 1000mfd, 6.3V
C524	22362101	CD, 100pF, 50V, K
C525	22486101	EL, 100mfd, 25V
C526	22485100	EL, 10mfd, 16V
C527	22483101	EL, 100mfd, 10V
C528	22342223	CD, 0.022mfd, 50V, Z
C529, 530	22349331	CD, 330pF, 50V, K
C531, 532	22488339	EL, 3.3mfd, 50V
C533, 534	22488339	EL, 3.3mfd, 50V
C535	22488229	EL, 2.2mfd, 50V
C701, 709	22321210	PP, 0.1mfd, 50V, K
C702, 711	22372683	MY, 0.068mfd, 50V, K
C703, 712	22372223	MY, 0.022mfd, 50V, K
C704, 713	22483101	EL, 100mfd, 10V
C705, 714	22372473	MY, 0.047mfd, 50V, K
C706, 715	22372103	MY, 0.01mfd, 50V, K
C707	22372473	MY, 0.047mfd, 50V, K
C708, 710	22321057	PP, 0.01mfd, 100V, J
C801, 802	22485100	EL, 10mfd, 16V
C803, 804	22485100	EL, 10mfd, 16V
C805, 806	22362101	CD, 100pF, 50V, K

Symbol No.	Part No.	Description
C807, 808	22321309	PP, 235pF, 100V, G
C809, 810	22321308	PP, 9100pF, 100V, G
C811, 812	22321307	PP, 4700pF, 100V, G
C813, 814	22360333	BL, 0.1mfd, 25V, M
C815, 816	22488478	EL, 0.47mfd, 50V
C819, 820	22485100	EL, 10mfd, 16V
C821, 822	22321306	PP, 1500pF, 100V, G
C825, 826	22485100	EL, 10mfd, 16V
C835, 836	22482102	EL, 1000mfd, 6.3V
C837	22361609	CD, 6pF, 50V, D
C839	22360484	CD, 0.047mfd, 50V, Z
C901	22372224	MY, 0.22mfd, 50V, K
C902	22372154	MY, 0.15mfd, 50V, K
C903	22440424	EL, 10000mfd, 25V
C904	22485101	EL, 100mfd, 16V
C905	22485102	EL, 1000mfd, 16V
C906	22483101	EL, 100mfd, 10V
C907	22486102	EL, 1000mfd, 25V
C908	22342223	CD, 0.022mfd, 50V, Z
C909	22487330	EL, 33mfd, 35V
C910	22372823	MY, 0.082mfd, 50V, K

RESISTORS

1. Resistors are carbon film 1/6W, ±5% unless otherwise noted. G = ±2%
2. PRC is short for the printed resistor circuit. If replacement of the resistor in PRC is required. Please use the substitutional fixed carbon film resistor of 1/4W, ±5% according to the following list. K = 1000, M = 1000000

Symbol No.	Part No.	Description
R1	22555224	220K ohm
R2, 23	22555104	100K ohm
R3, 25	22555822	8.2K ohm
R4, 26	22555104	100K ohm
R5, 21	22555823	82K ohm
R6, 22	22555224	220K ohm
R7, 19	22547335	3.3M ohm, 1/2W
R8, 20	22555221	220 ohm
R9, 16	22555225	2.2M ohm
R10, 15	22555393	39K ohm
R11, 18	22555333	33K ohm
R12, 14	22555473	47K ohm
R13, 17	22555223	22K ohm
R27, 30	22658764	50K ohm, Semi-fixed Variable
R28, 29	22658761	10K ohm, Semi-fixed Variable
R001	22584332	3.3K ohm
R002	22584332	3.3K ohm
R003	22625439	50K ohm, Variable
R004	22545102	1K ohm, 1/4W (PRC)
R005	22584103	10K ohm
R006	22545104	100K ohm, 1/4W
R007	22545472	4.7K ohm, 1/4W (PRC)
R008	22545223	22K ohm, 1/4W (PRC)
R009	22545223	22K ohm, 1/4W (PRC)
R010	22545472	4.7K ohm, 1/4W (PRC)
R011	22545682	6.8K ohm, 1/4W (PRC)
R012	22545682	6.8K ohm, 1/4W (PRC)
R101	22545331	330 ohm, 1/4W (PRC)
R102	22545101	100 ohm, 1/4W (PRC)
R103	22545331	330 ohm, 1/4W (PRC)
R104	22584470	47 ohm
R105	22545681	680 ohm, 1/4W (PRC)
R106	22545331	330 ohm, 1/4W (PRC)
R107	22555829	8.2 ohm, 1/4W, Rank–Y
R107	22555479	4.7 ohm, 1/4W, Rank–W
R108	22545182	1.8K ohm, 1/4W (PRC)
R109	22545182	1.8K ohm, 1/4W (PRC)
R110	22584104	100K ohm
R111	22545272	2.7K ohm, 1/4W (PRC)
R112	22545104	100K ohm, 1/4W (PRC)
R113	22545822	8.2K ohm, 1/4W (PRC)
R114	22545122	1.2K ohm, 1/4W (PRC)
R115	22545154	150K ohm, 1/4W (PRC)
R201	22545102	1K ohm, 1/4W (PRC)
R202	22545822	8.2K ohm, 1/4W (PRC)
R203	22658599	10K ohm, Semi-fixed Variable
R204	22545154	150K ohm, 1/4W (PRC)
R205, 206	22584332	3.3K ohm
R207	22545152	1.5K ohm, 1/4W (PRC)
R208	22545221	220 ohm, 1/4W
R301	22584681	680 ohm
R302	22584822	8.2K ohm
R303, 304	22584331	330 ohm
R305, 306	22584100	10 ohm
R307, 308	22584222	2.2K ohm
R309, 310	22584822	8.2K ohm
R311, 312	22584333	33K ohm
R313, 314	22543680	68 ohm, 1/8W
R315, 316	22584102	1K ohm
R317, 318	22584331	330 ohm
R319, 320	22657245	50K ohm, Variable
R321, 322	22584105	1M ohm
R323	22547109	1 ohm, 1/2W
R324	22584472	4.7K ohm
R325	22584102	1K ohm

Symbol No.	Part No.	Description
R401	22545332	3.3K ohm, 1/4W (PRC)
R402	22545103	10K ohm, 1/4W (PRC)
R403	22545224	220K ohm, 1/4W (PRC)
R404	22545472	4.7K ohm, 1/4W (PRC)
R405	22545472	4.7K ohm, 1/4W (PRC)
R406	22545104	100K ohm, 1/4W (PRC)
R407	22545473	47K ohm, 1/4W (PRC)
R408	22545472	4.7K ohm, 1/4W (PRC)
R409	22657247	10K ohm, Variable
R410	22545102	1K ohm, 1/4W (PRC)
R411, 412	22545271	270 ohm, 1/4W (PRC)
R413, 414	22584682	6.8K ohm
R415, 416	22545103	10K ohm, 1/4W (PRC)
R417, 418	22545153	15K ohm, 1/4W (PRC)
R419, 420	22584222	2.2K ohm
R421, 422	22545474	470K ohm, 1/4W (PRC)
R423	22545104	100K ohm, 1/4W (PRC)
R424	22545222	2.2K ohm, 1/4W (PRC)
R427, 428	22584221	220 ohm
R429, 430	22550325	10M ohm, 1/4W
R431, 432	22584564	560K ohm
R433, 434	22584123	12K ohm
R435, 436	22584103	10K ohm
R437, 438	22550325	10M ohm, 1/4W
R439, 440	22550325	10M ohm, 1/4W
R441, 442	22545104	100K ohm, 1/4W (PRC)
R443, 444	22550325	10M ohm, 1/4W
R445, 446	22555122	1.2K ohm, 1/4W
R447, 448	22584153	15K ohm
R449, 450	22584225	2.2M ohm
R451, 452	22545153	15K ohm, 1/4W (PRC)
R453	22545104	100K ohm, 1/4W (PRC)
R454	22545154	150K ohm, 1/4W
R455	22545223	22K ohm, 1/4W (PRC)
R456	22545154	150K ohm, 1/4W
R457	22545472	4.7K ohm, 1/4W (PRC)
R458	22584225	2.2M ohm
R459, 460	22584682	6.8K ohm
R461, 462	22584123	12K ohm
R463, 464	22584273	27K ohm
R465, 466	22584223	22K ohm
R467, 468	22545222	2.2K ohm, 1/4W (PRC)
R469	22545104	100K ohm, 1/4W (RPC)
R470	22545332	3.3K ohm, 1/4W (PRC)
R471, 472	22584153	15K ohm
R473, 474	22584152	1.5K ohm
R475, 476	22584152	1.5K ohm
R477, 478	22657249	50K ohm, Variable, Treble
R479, 480	22657246	50K ohm, Variable, Bass
R481	22545102	1K ohm, 1/4W (PRC)
R483, 484	22545103	10K ohm, 1/4W
R485, 486	22545682	6.8K ohm, 1/4W
R489, 490	22657250	500K ohm, Variable, USL
R491, 492	22584105	1M ohm

Symbol No.	Part No.	Description
R493, 494	22584223	22K ohm
R495, 496	22545153	15K ohm, 1/4W (PRC)
R497, 498	22545153	15K ohm, 1/4W (PRC)
R499, 500	22584103	10K ohm
R501, 502	22545222	2.2K ohm, 1/4W (PRC)
R503	22545104	100K ohm, 1/4W (PRC)
R504	22545222	2.2K ohm, 1/4W (PRC)
R505, 506	22545222	2.2K ohm, 1/4W (PRC)
R507, 508	22584153	15K ohm
R509, 510	22584104	100K ohm
R511, 512	22584474	470K ohm
R513, 514	22545221	220 ohm, 1/4W (PRC)
R515, 516	22584822	8.2K ohm
R517, 518	22555123	12K ohm, 1/4W
R519, 520	22555273	27K ohm, 1/4W
R521, 522	22545474	470K ohm, 1/4W (PRC)
R523, 524	22584225	2.2M ohm
R525, 526	22584223	22K ohm
R527, 528	22584332	3.3K ohm
R529, 530	22584223	22K ohm
R531, 532	22584103	10K ohm
R533, 534	22545104	100K ohm, 1/4W (PRC)
R535, 536	22584123	12K ohm
R537, 538	22584104	100K ohm
R539, 540	22555121	120 ohm, 1/4W
R541, 542	22545222	2.2K ohm, 1/4W (PRC)
R543, 544	22584153	15K ohm
R545, 546	22584104	100K ohm
R547, 548	22584474	470K ohm
R549, 550	22545221	220 ohm, 1/4W (PRC)
R551, 552	22584822	8.2K ohm
R553, 554	22584123	12K ohm
R555, 556	22584273	27K ohm
R557, 558	22545474	470K ohm, 1/4W (PRC)
R559, 560	22584225	2.2M ohm
R561, 562	22584332	3.3K ohm
R563, 564	22550233	24K ohm, 1/4W (RPC)
R565, 566	22545104	100K ohm, 1/4W (RPC)
R567	22545104	100K ohm, 1/4W (PRC)
R568, 569	22545183	18K ohm, 1/4W (PRC)
R570, 571	22545152	1.5K ohm, 1/4W (PRC)
R572	22545152	1.5K ohm, 1/4W (PRC)
R573, 574	22545334	330K ohm, 1/4W (PRC)
R575, 576	22658500	300 ohm, Semi-fixed Variable
R577, 578	22584334	330K ohm
R579, 580	22584682	6.8K ohm
R581, 582	22584562	5.6K ohm
R583, 584	22545103	10K ohm, 1/4W (PRC)
R585	22545104	100K ohm, 1/4W (PRC)
R586	22545273	27K ohm, 1/4W (PRC)
R587	22545104	100K ohm, 1/4W (PRC)
R588	22545104	100K ohm, 1/4W (PRC)
R589	22584183	18K ohm

Symbol No.	Part No.	Description
R590	22545102	1K ohm, 1/4W (PRC)
R591	22545104	100K ohm, 1/4W (PRC)
R592	22545224	220K ohm, 1/4W (PRC)
R593	22584472	4.7K ohm
R594	22545104	250K ohm, 1/4W
R594	22545154	(100K + 150K) (PRC)
R595	22545103	10K ohm, 1/4W (PRC)
R596	22545103	10K ohm, 1/4W
R597	22545332	3.3K ohm, 1/4W (PRC)
R598	22584100	10 ohm
R599	22545223	22K ohm
R600	22545683	68K ohm, 1/4W (PRC)
R601	22545473	47K ohm, 1/4W (PRC)
R602	22545334	330K ohm, 1/4W (PRC)
R603	22545334	330K ohm, 1/4W (PRC)
R604	22540639	3.3 ohm, 1/4W
R605, 606	22545472	4.7K ohm, 1/4W (PRC)
R607, 608	22584103	10K ohm
R609, 610	22657247	10K ohm, Variable
R611, 612	22545473	47K ohm, 1/4W (PRC)
R613, 614	22584473	47K ohm
R615, 616	22555820	82 ohm, 1/4W
R617, 618	22545271	270 ohm, 1/4W (PRC)
R619, 620	22545821	820 ohm, 1/4W (PRC)
R621, 622	22545821	820 ohm, 1/4W (PRC)
R623, 624	22545821	820 ohm, 1/4W (PRC)
R625	22545821	820 ohm, 1/4W (PRC)
R626	22545103	10K ohm, 1/4W (PRC)
R627	22584151	150 ohm
R628	22545334	330K ohm, 1/4W (PRC)
R629	22545683	68K ohm, 1/4W (PRC)
R630	22545223	22K ohm, 1/4W (PRC)
R631	22545104	100K ohm, 1/4W (PRC)
R632	22584105	1M ohm
R633, 634	22657248	10K ohm, Variable
R635, 636	22658379	2K ohm, Semi-fixed Variable
R637	22545104	100K ohm, 1/4W (PRC)
R638	22584472	4.7K ohm
R639, 640	22550325	10M ohm, 1/4W, K
R641	22545393	39K ohm, 1/4W (PRC)
R642	22545103	10K ohm, 1/4W (PRC)
R643	22545473	47K ohm, 1/4W (PRC)
R644	22545104	100K ohm, 1/4W (PRC)
R645, 646	22545103	10K ohm, 1/4W (PRC)
R647	22545103	10K ohm, 1/4W (PRC)
R648	22540640	22 ohm, 1/4W
R649	22584339	3.3 ohm
R650	22545103	10K ohm, 1/4W (PRC)
R651	22545334	330K ohm, 1/4W (PRC)
R652	22545104	100K ohm, 1/4W (PRC)
R653	22545334	330K ohm, 1/4W (PRC)
R654, 655	22545104	100K ohm, 1/4W (PRC)
R656	22545474	470K ohm, 1/4W (PRC)
R657	22545333	33K ohm, 1/4W (PRC)

Symbol No.	Part No.	Description
R658	22545332	3.3K ohm, 1/4W (PRC)
R659	22545101	100 ohm, 1/4W (PRC)
R660	22545182	1.8K ohm, 1/4W (PRC)
R661	22545271	270 ohm, 1/4W (PRC)
R662	22545104	100K ohm, 1/4W (PRC)
R663	22545392	3.9K ohm, 1/4W (PRC)
R664	22584102	1K ohm
R665	22545103	10K ohm, 1/4W (PRC)
R666	22545122	1.2K ohm, 1/4W (PRC)
R667	22545224	220K ohm, 1/4W (PRC)
R668	22545122	1.2K ohm, 1/4W (PRC)
R669	22545474	470K ohm, 1/4W (PRC)
R670	22545474	470K ohm, 1/4W (PRC)
R671, 672	22545103	10K ohm, 1/4W (PRC)
R673, 674	22545563	56K ohm, 1/4W (PRC)
R675, 676	22545104	100K ohm, 1/4W (PRC)
R677, 678	22545104	100K ohm, 1/4W (PRC)
R679	22545474	470K ohm, 1/4W (PRC)
R680	22555101	100 ohm, 1/4W
R681	22545104	100K ohm, 1/4W (PRC)
R682	22545333	33K ohm, 1/4W (PRC)
R701, 707	22584220	22 ohm
R702, 708	22584560	56 ohm
R703, 709	22584680	68 ohm
R704, 710	22584339	3.3 ohm
R705, 711	22584562	5.6K ohm
R706, 712	22584152	1.5K ohm
R801, 802	22545563	56K ohm, 1/4W (PRC)
R803, 804	22584563	56K ohm
R805, 806	22584392	3.9K ohm
R807, 808	22584332	3.3K ohm
R809, 810	22584562	5.6K ohm
R811, 812	22584684	680K ohm
R813, 814	22550330	32K ohm, 1/4W, G
R815, 816	22550144	33K ohm, 1/4W, G
R817, 818	22550229	3.9K ohm, 1/4W, G
R819, 820	22550235	2K ohm, 1/4W, G
R821, 822	22584392	3.9K ohm
R823, 824	22550330	32K ohm, 1/4W, G
R825, 826	22550325	10M ohm, 1/4W, G
R827, 828	22545104	100K ohm, 1/4W (PRC)
R829, 830	22550325	10M ohm, 1/4W, G
R831, 832	22550323	120K ohm, 1/4W, G
R835	22584104	100K ohm
R863, 864	22545152	1.5K ohm, 1/4W (PRC)
R866	22545122	1.2K ohm, 1/4W (PRC)
R867	22543181	180 ohm, 1/8W
R881	22545223	22K ohm, 1/4W (PRC)
R882	22584225	2.2M ohm
R901, 902	22584472	4.7K ohm
R903	22584183	18K ohm
R904	22543821	820 ohm, 1/8W

Symbol No.	Part No.	Description
R905	22584100	10 ohm
R906	22584151	150 ohm
R907	22555152	1.5K ohm, 1/4W
R908	22584100	10 ohm
R909	22584104	100K ohm
R913	22584332	3.3K ohm
R914	22584332	3.3K ohm
R915	22584333	33K ohm
R917	22543100	10 ohm, 1/8W
R918	22555689	6.8 ohm, 1/4W
R919	22555689	6.8 ohm, 1/4W
R920	22570311	220 ohm, 2W, Oxide Metal Film
R921	22547339	3.3 ohm, 1/2W
R922	22584101	100 ohm
R923	22584331	330 ohm
R924, 926	22584152	1.5K ohm
R925, 927	22584221	220 ohm
R928	22540481	3.9 ohm, 1/8W
R929	22584680	68 ohm
R930	22584560	56 ohm
R931	22584470	47 ohm

Symbol No.	Part No.	Description
R932, 933	22657251	1K ohm, Variable
R934	22545223	22K ohm, 1/4W (PRC)
R935	22545334	330K ohm, 1/4W (PRC)
	ACCESSORIES	
AC01	22105370	Demonstration Tape
⚠ AC02	22176615	Cord, Power
AC03	22903504	Owner's Manual
AC04	22906359	Pop Label, Left
AC05	22906360	Pop Label, Right
AC06	25857120	Spacer, Speaker Box
AC07	25832696	Foot, Control
AC08	22941301	Poly Bag, Speaker Spacer
AC09	22941375	Poly Bag, Speaker Cord

4-2. PARTS LIST (SPEAKERS)

Symbol No.	Part No.	Description
329	22701326	Screw, 3ϕ x 8mm, BID-TP
339	22701438	Screw, 4ϕ x 10mm, BID-TP
340	22701334	Screw, 3ϕ x 35mm
363	22707536	Screw, 3ϕ x 10mm, BID
364	20831376	Passive Radiator
365	22701436	Screw, 3ϕ x 8mm, TPPAN
366	25857104	Spacer, Tweeter
367	25881582	Box Ass'y, Speaker, Right
368	25881584	Back Cabinet, Speaker, R

Symbol No.	Part No.	Description
369	25832595	Decoration, Joint Speaker
370	22707778	Screw, 3ϕ x 12mm, OVL
372	25881357	Joint Rock Ass'y
373	25847255	Joint Bracket, Bottom
374	25847258	Joint Bracket, R
375	22166153	Cord, Speaker
376	25881583	Box Ass'y, Speaker, Left
377	25881585	Back Cabinet, Speaker, L
378	25847267	Joint Bracket, L

4-3. PARTS LIST (MECHANISM)

Symbol No.	Part No.	Description
1	25782511	Lever, Record Lock
2	25756280	Gear, Rewind
3	25756279	Gear, Fast-forward
4	25776432	Spring
5	25782509	Lever, Fast-forward Gear
6	25778013	Spring, Rewind
7	25782507	Lever, Fast Drive
8	25783266	Slider, Rewind Drive
10	25778008	Spring, Play Lever
11	25782505	Lever, Play Drive
12	22707301	Screw, 2.6ϕ x 8mm, BID-TP
13	25791505	Main Chassis Ass'y
14	25754402	Reel Plate Ass'y, Supply
15	25777099	Spring, Supply Reel Plate
16	25712409	Reel Plate Ass'y, Take-up
17	22707825	Screw, 2.6ϕ x 6mm, TPAN
18	22703281	Washer, 2.6ϕ
19	25776431	Spring
20	25772579	Spring, Erase Head
21	25777056	Spring, Head
22	25778007	Spring, Head Slider
24	25757129	Stell Ball, 2ϕ
26	25766050	Washer
27	22707602	Screw, 2ϕ x 10mm, DTBID
31	22218249	Erase Head
32	22217362	Record/Playback Head
33	25717516	Pressure Roller Ass'y
34	25778006	Spring, Pressure Roller
35	22707303	Screw, 2.6ϕ x 10mm, BID-TP
36	25779240	Spring, Holder
39	25873238	Tape Counter
40	25755529	Belt, Tape Counter
41	25776436	Spring, Lock Holder
42	25782512	Lever, Lock Holder
43	25783195	Bush
44	25782510	Lever, ASO Pause
45	25776418	Spring
46	25782506	Lever, Pause
48	25816687	Button, Play
49	25816689	Button, Record
50	25816690	Button, Stop/Eject
51	25816686	Button, Rewind
52	25816685	Button, FF
53	25816688	Button, Pause
54	25783279	Bush
55	25777097	Spring, Pause Lock
56	25775231	Wire, Pause Lock
58	25783271	Slider, Record
59	25783272	Slider, Stop
60	25783269	Slider, Rewind
61	25783268	Slider, FF
62	25783267	Slider, Play
63	25783270	Slider, Pause
64	25755527	Belt, Drive
65	25725340	Bearing
66	25766089	Washer
67	25717517	Flywheel Ass'y
68	25777108	Spring, Thrust
70	22701389	Screw, 2.6ϕ x 3mm, BID
71	25782508	Lever, Search
72	25778012	Spring, ASO Lever

Symbol No.	Part No.	Description
73	25782521	Lever, ASO
74	25776437	Spring
75	25782514	Operation Lever, FF
76	25782513	Operation Lever, Play
77	25782515	Operation Lever, Pause
78	25776420	Spring
80	25756282	Cam Gear, Pause
81	25756281	Cam Gear, Play
82	25776417	Spring
83	25741924	Slider, Switch
84	25741925	Slider, Eject
85	25741923	Slider, Lock
88	22707183	Spring Pin, Solenoid
90	22707169	Screw, 2.6ϕ x 10mm, DTBID
92	22707299	Screw, 2ϕ x 8mm, BID-TP
93	25776445	Spring
94	25734462	Sub Plate Ass'y
95	25778014	Spring, Rewind Slider
96	25756283	Cam Gear, Fast
97	25782522	Lever, Play Stop
98	25782516	Lever, Record
100	25778015	Spring
101	25775232	Wire, Record
102	25776419	Spring
103	25783226	Bush
104	25778011	Spring, Detect Lever
105	25766073	Washer, ASO
107	25782520	Lever, ASO Detect
108	25791506	Motor Ass'y
109	25781520	Motor Ass'y
110	25761238	Cushion, Motor
112	22161271	Terminal Board
114	22707429	Screw, 2.6ϕ x 6.7mm
115	25783199	Washer
116	25713559	Pulley Ass'y, Center
117	25755528	Belt, Center
118	25756284	Gear, Take-up
119	25756285	Gear, Fast
120	25782519	Lever, Take-up
122	25782517	Lever, Record Bias
123	25782518	Lever, Record Select
124	25748595	Lever, Record
125	25776433	Spring, Record Lever
126	25776435	Spring, Record Select Lever
127	25776434	Spring, Record Bias Lever
128	25779283	Spring
130	25783260	Bush
132	22707669	Screw, 2ϕ x 12mm, DTBID
133	25777133	Spring, Solenoid
135	22707366	Screw, 2.6ϕ x 6mm, DTBID
138	22707592	Screw, 2ϕ x 10mm, BID-TP
139	22707837	Screw, 2ϕ x 5mm, PAN
140	22707369	Screw, 2.6ϕ x 12mm, DTBID
142	22707426	Screw, 2ϕ x 5mm, DTBID
144	25766090	Washer
145	25764597	Washer
146	25754441	Spacer